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ABSTRACT

A digest about how higher education can use new telecommunications technologies, especially to reach students in off-campus settings, is presented. Ten issues of volume 4 of the newsletter "TELESCAN" include information on legislation and trends in the applications of technology-based instruction in postsecondary education. Also included are abstracts and annotated bibliographies of periodical articles, books, and programs which are organized under the technology they address: audio, video, or computer technologies, or combined technologies. Specific categories include: radio, telephone, teleconferencing, broadcast television, cable television, videotex, teletext, satellites, videodisc, videotape, computers, and interactive video. Specific contents cover: awards grants by National Public Radio; 24-hour educational programming provided by Cable 4; an interactive video consortium; current trends in satellite teleconferencing; educational associations' greater focus on telecommunications; a 1985 distance learning conference with representatives from 13 countries; electronic text services; Instructional Television Fixed Service; new distribution systems for telecommunications, including low power television, FM radio, and cable television; and resources in educational telecommunications. (SW)

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TELESCAN

The Digest of the Center for Learning and Telecommunications

VOLUME 4, Issues 1-10, September 1984-June 1985.

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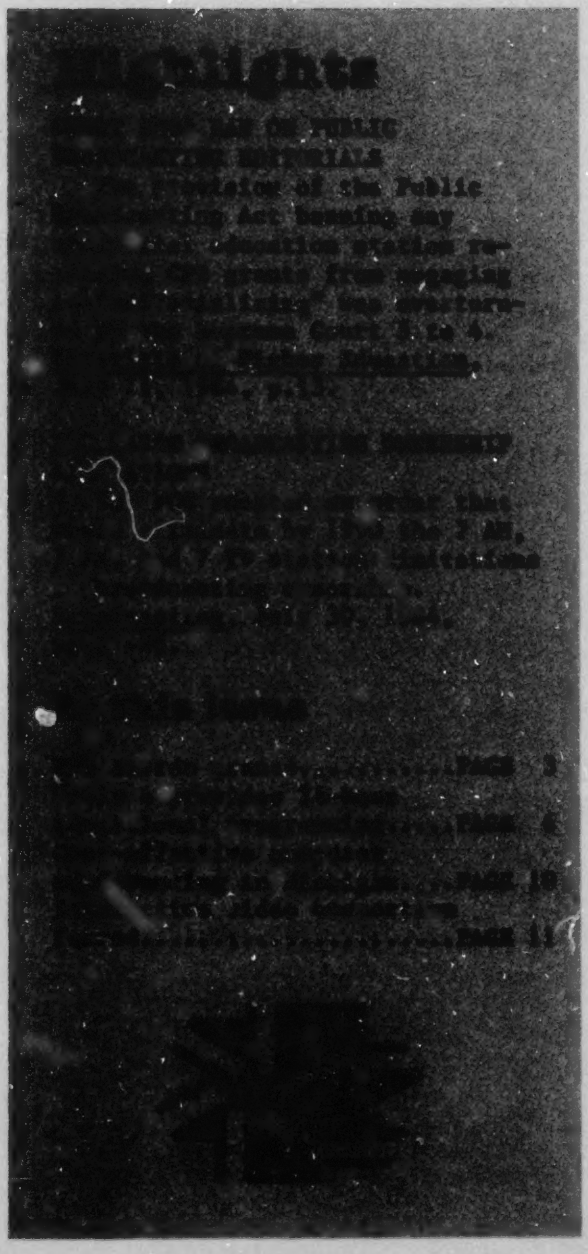
TELESCAN SEPTEMBER 1984

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 1



Focus On:

Public Broadcasting

(FOCUS is a new column that will examine recent trends and provide analysis of telecommunications usage in postsecondary education.)

Public TV and radio educational services are widely available, but face declining financial resources, according to two recent CPB studies. In current dollars, reported income for Fiscal Year 1982 was up 22 percent from Fiscal Year 1978, but after adjusting for inflation income showed a drop of 12 percent.

Ninety-five percent of all public TV licensees provided educational program services compared to 94 percent in 1978-79 and 92 percent in 1976-77. Workshops are the most common service provided by the 108 licensees, followed by school visits.

Broadcasting, cable TV, ITFS, and videocassettes were cited by licensees as the current and future distribution systems for formal postsecondary programming. Educational programming planned for the future included: basic skills, computer literacy, science, and math. Forty-nine licensees plan establishing and expanding ITFS operations, about half (84) plan involvement in computers, while about 20 percent will be working with teletext or videotex.

Overall, public radio station involvement in educational services was low. Over the past five years, the number of radio stations offering educational programming and/or services

(Continued on page 4)

Legislative Update

by Art Sheekey, AAHE Senior Associate

Congress is expected to pass an appropriations bill for education with the strong possibility of a billion dollar increase. Congress approved the "Education for Economic Security Act" (S 1285/HR 1310) an authorization that includes:

- o grants to higher education institutions for training teachers to use computers,
- o funds to encourage cooperative ventures with private industry to improve math, science, and foreign language programs,
- o discretionary funds for both the Secretary of Eucation and Director of NSF for programs to improve computer learning.

This comprehensive bill, if fully funded, would add another billion dollars to the federal budget over a two-year period.

The House approved HR 5541, the Public Broadcasting Amendments Act (already passed in the Senate) that extends authorities for the Corporation for Public Broadcasting and the NTIA's Public Broadcasting Telecommunications Facilities Program. Final vote by the House for these activities was 309-91. (See side box for further explanation of the the impact of this bill.)

Satellites

The Court of Appeals in Washington, D.C. ruled in favor of the FCC's authorization of DBS service in the 12.2-12.7 ghz band. This ruling affirmed the construction permit for Comsat's Satellite Television Corporation's DBS system. Contact: Mary Diebler, Public Service Satellite Consortium, 202/331-1154.

Instructional Fixed Television Service

The FCC simplified its licensing procedures for ITFS and extended license terms from 5 to 10 years. It also established an interim cut-off period of 30 days for those interested in filing competing applications for some 500 ITFS applications currently pending at the FCC. Contact: Susan Fratkin, National Association of State Universities and Land-Grant Colleges, 202/293-7120.

PTFP Planning and Construction Grants

After several years of waning interest, the PTFP seems to have renewed its vigor. It will have approximately $23 million in Fiscal Year 1985 (beginning October 1, 1984) and authorizations in excess of $50 million for each of the next three years.

To be eligible to apply for or receive a PTFP grant, an applicant must be:

- o a public broadcast station;
- o a system of public telecommunications entities;
- o a nonprofit foundation, corporation, institution, or association organized primarily for educational or cultural purposes, or;
- o a state or local government, or political or special purpose division of a state.

Applications for FY 1985 grants will be due around mid-January. Top priority will extend to entities planning to serve the few remaining geographic areas not receiving Public Broadcasting. Special consideration will be given to operations owned or run by minorities or women. Grants provide up to 75 percent matching awards for new telecommunications facilities, expansion of services, improvements, or for the development of plans for broadcast or nonbroadcast construction.

For more information on the PTFP grant cycle write to the Public Telecommunications Facilities Program, U.S. Department of Commerce, Room 4625, Washington, DC 20203, 202/377-5802.

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Radio

Programs

Satellite Program Development Fund Awards 18 Grants

In an effort to help support production of new nationally distributed programming for public radio, NPR's Satellite Program Development Fund has awarded a total of $197,307 to 18 radio projects. The Fund has provided support for a wide range of public affairs, music, history, and dramatic productions. They include: "Bicentennial Radio Series on the U.S. Supreme Court," a two-part docudrama on Supreme Court landmark decisions; "Convencision Democratic '84," and "Convencision Republicana '84," two projects offering live coverage of the Democratic and Republican conventions in Spanish and English; "The Big Event," a radio dramatization of horror novelist Stephen King's satire, "The Mist"; and "Harlem Hit Parade," 26 half-hour programs on the history of rhythm and blues in America.

This year's recipients were selected from 155 in the Round 11 grant competition for category A submissions. The grants are expected to provide public radio with over 46 hours of new programing. Next deadline is November 16, 1984, for Category A and B applications.

Contact: Sandra Rattley, SPDF, 202/822-2085.

Articles

Greene, Robert. "College Stations Are Still Aiding Industry," Radio World, August 1, 1984, p.18. An overview of the contributions and struggles currently facing college radio stations.

"NPR Votes for National Fund Raiser to Repay CPB Debt," Broadcasting, July 23, 1984, p.97-98. A report on NPR's new "systemwide campaign" to pay off their CPB loan.

Spillman, Susan. "Service Set for Campus," Advertising Age, July 30, 1984, p.49. An anouncement of the formation of College Entertainment News Group, a new company that will provide an entertainment broadcast service for college radio stations.

"What to Do with Additional AM Space?" Broadcasting, July 9, 1984, p.62. A summary of the comments the FCC received concerning new allocations in the 1605-1705 khz band.

Telephone

Articles

"An Antitrust Challenge to AT&T Discounts," Business Week, July 23, 1984, p.92. A report on the Justice Department's request that the FCC reconsider approval of AT&T's new long-distance discount plan.

Blundell, Gregory. "Bypass Debate Generates Questions That So Far Outnumber the Answers," Communications News, August 1984, pp.30-31. An explanation of the term "bypass" and a look at its viability and use.

"Long Distance Options," TRAC Tele-Tips, Summer 1984, pp.1-4. A comparison of the current long-distance carriers:

their services and charges.

"Selection Process Started for Long-Distance Carriers Under Equal Access," Telephone Angles, July 1984, p.8. An update on the presubscription process now going on in major cities around the country.

Books

Cost-Effective Telecommunications Management. Bob Kaufman. Telephone Angles, P.O. Box 633, West Hartford, CT 06107. 1983. 288pp. $24.95

A guide to understanding the new alternatives available to lower telephone costs including: WATS, private lines for data and voice transmissions, Foreign Exchange Service, and specialized common carriers.

Teleconferencing

Articles

"FCC Moves on AT&T Questions," TeleSpan, July 15, 1984, pp.9-10. An update on FCC actions that will affect teleconferencing.

"Residential Teleconferencing Proves to Be Popular," TeleSpan, July 15, 1984, pp.3-4. A report on New York and New England telephone companies' trial residential teleconferencing network.

Books

Teleconferencing: A Practical Guide to Teaching by Telephone. Ricki Ann Bronstein. American Society of Clinical Pathologists, P.O. Box 12073, Chicago, IL 60612. 1982. 115pp. $15.

A guide to teaching by teleconferencing that details purchase of equipment to program delivery and wrap-up.

Public Broadcasting

(Continued from page 1)

has declined from 62 to 37. But a small group of stations providing these services since 1978-79 has expanded them.

Thirty-seven public radio stations provided educational programming and services at the K-12 and/or postsecondary levels in 1982-83. Almost all of these provided additional instructional services such as ancillary materials and services utilizing teachnology; only half of the stations provided these additional services in 1978-79.

Eighteen stations are working with 86 of the 441 colleges and universities in their coverage areas to provide postsecondary educational services.

Contact: Laura Ginsberg, CPB, 202/955-5162.

Center for Learning
and Telecommunications
One Dupont Circle, Suite 600
Washington, DC 20036
202/293-6440

The Center for Learning and Telecommunications was established in 1980 under a grant from the Carnegie Corporation to provide the postsecondary community with objective information on the use of telecommunication technologies in delivering instruction. The Center publishes Telescan on a monthly basis to assist academic decision-makers in discovering the programs, projects, research, and other initatives that effectively utilize technology in postsecondary settings.

Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Washington State Penitentiary Expands Its Telecourse Offerings

Walla Walla Community College is working to enable prisoners at Washington State Penitentiary to enroll in educational programs. Not all prisoners are able to participate in Walla Walla's traditional classroom educational program which offers over 200 courses in vocational, technical, and liberal arts training. Prisoners reside at different levels of security and are not permitted to interact. So the college is using the prison's closed circuit TV system to offer telecourses to reach working, protective custody, and death row immates.

A pilot program began in spring 1984 with two telecourses and response has been so positive that courses will be expanded this fall. Sixty-four immates signed up for the biology telecourse this summer and all sixty-four are still enrolled. Gabe Joseph, educational coordinator at the penitentiary, reports that the telecourses have a high completion rate, 72-75 percent.

Courses are telecast three times a day for credit toward an Associate of Arts degree. Instructors are available on call for questions from prisoners. According to Joseph, the telecourses also enable the college to offer courses that are not available through their formal classroom offerings.

Contact: Gabe Joseph, Walla Walla Community College, 509/525-3610.

Kentucky Consortium Promotes Use of Telecourses

The State of Kentucky Council on Higher Education will be offering 8 telecourses this fall through the Kentucky Telecommunications Consortium. The Consortium offers the state's 20 public and private colleges the opportunity to provide telecourses to their students.

Colleges are able to keep the tuition collected from students and further develop their own telecourse program. The consortium covers the cost of licensing fees, and headcount charges, and actively markets the telecourses to the community.

More than 9,000 students have received credit for telecourses since the program's inception in 1978.

Contact: Roy Peterson, Kentucky Telecommunications Consortium, 502/564-5483.

Articles

"College Football Association and Networks Sign 2 More TV Pacts," Chronicle of Higher Education, August 1, 1984, pp.1,22. An update on the college football contracts currently signed with different television networks.

"CPB Focuses on Minority Employment," NFCB Newsletter, June/July 1984, pp.6-7. A report on CPB's response to Congressional concerns of poor EEO employment in public broadcasting.

"'Infomercials' May Run on Broadcast TV," Electronic Media, July 12, 1984, pp.3,23. A discussion of the effects of FCC deregulation of commercial TV and how advertising will change as a result.

"Major Study on School ITV Use Released," Current, July 17, 1984, p.7. A disclosure of data collected by CPB concerning use of instructional television in schools.

Marc, David. "Understanding Television," Atlantic Monthly, August 1984, pp.33-44. An examination of commercial TV and why it is not viewed as a purveyor of language, image, and American culture.

Martin, Stan. "Better Education for Future Broadcasters," Broadcasting, July 30, 1984, p.14. A commentary on the importance of communication schools' curriculum covering all aspects of broadcasting, not just announcing.

"The Networks Produce Some Panic in Hollywood," Business Week, August 6, 1984, pp.90-92. A report on ABC, CBS, and NBC's plans to film their own series, which alarms the movie studios.

"NTIA Awards 94 PTFP Grants Worth $12 Million," ETV Newsletter, July 23, 1984, p.1. An announcement of the National Telecommunications and Information Administration's awards and judging criteria.

"One-third of PTV Stations Plan to Get into ITFS, According to Survey," ETV Newsletter, July 9, 1984, p.2. A report on a CPB study that shows 23 PTV licensess currently holding ITFS licenses and 49 more anticipating establishing systems by 1985.

Reilly, Allison. "PBS Station Already Tuning in to Stereo," Electronic Media, July 26, 1984, p.3. A look at WTTW-TV (Chicago)'s plan to initiate stereo sound this summer.

"UPI Owners Launch LPTV Venture," Broadcasting, July 16, 1984, p.34. A report on United Press International's announcement of their new venture, Community TV Network, a national network of low power TV stations.

Cable Television

Programs

Cable Channel 4 Serves Three Maryland Communities Colleges With Telecourses

Cable 4 will cablecast an unprecedented 17 telecourses this fall. The community and educational channel for Baltimore County serves Catonsville, Dundalk, and Essex Community Colleges with 24-hour programming seven days a week.

Programming is split between telecourses produced by Cable 4 and the College of the Air Courses, and locally originated community programs. Six of the telecourses offered were produced by Cable 4. They are: "Introduction to Chemistry," "Quantitative Analysis," "Hatha Yoga," "The Changing American Family," and "Real Estate Principles," and "Fundamentals of Biology."

Courses are cablecast two to three times a week for credit. Participating students meet at their community college for orientation prior to beginning the telecourse. All testing takes place on-campus, often seminars are also held on-campus to supplement telecourses.

Cable 4 anticipates close to 1,000 students will attend telecourses this year.

Contact: John Snead, Cable 4, 301/455-4292.

Articles

"Back to the Drawing Board (Again) on Cable Bill," Broadcasting, July 23, 1984, pp.40-41. An update on the progress of the cable bill HR 4103 and the cable industry's demands for changes.

Chumsky, Susan. "Local Cable Production Profiles," Videography, July 1984, pp.30-34. Four profiles of cable local origination centers: the programming produced and a look at the operation.

Clayton, Kathy. "Positive Attitude Reigns During NFLCP Convention," Multichannel, July 30, 1984, p.24. An overview of the National Federation of Local Cable Programmers' convention and some concerns over the FCC decision to disallow separate funding for access in Miami.

"FCC Reaffirms Pre-empt Right," CableVision, July 23, 1984, A discussion of recent FCC and Supreme Court rulings that are undermining cable bill HR 4103.

"Pitt May Hold Up W-A Transfer to TCI," CableVision, July 30, 1984, pp.39-40. A report on the city of Pittsburgh's move to prevent Warner Amex from requesting that their community access funds be credited toward franchise fees already paid to the city.

Satellites

Articles

"International Satellite Seminars Buys Major Interest in SatServ," PSSC Newsletter, July/August 1984, p.1. An announcement of the ISSI purchase of SatServ majority stock and its intention to produce 40 teleconferences for Venture magazine in 1984-85.

"More Setbacks for DBS," CableVision, July 23, 1984, p.20. A report on the Western Union decision to drop out of its DBS venture and RCA's switch from high- to medium power.

Russell, Susan. "Stormy Weather for DBS," CableVision, July 16, 1984, pp. 30-34. An analysis of forecasts for the DBS industry.

"STC Asks Changes in FCC DBS Filing," CableVision, July 30, 1984, p.18. A report on Satellite Television Corporation's request to the FCC to move into DBS without its partner CBS.

"Orbital Assignments Next Step in 'True' DBS Maze," CableAge, July 9, 1984, pp.16-27. An examination of the current status of DBS technology.

Teleconferencing

Programs

PSE Solicits Receive Sites for Adult Learner Teleconference

The Post-Secondary Education (PSE) Divison of Central Educational Network is now receiving requests from public television stations to become host receive sites for its Working With The Adult Learner Teleconference. Ninety-five stations have already signed up to receive the event, representing a 140 percent increase over last year's total of 68. Forty-two of the fifty states will have at least one receive site within their borders. The signal also will be beamed to the Virgin Islands and Canada.

The teleconference will feature Malcolm Knowles, one of the developers of the concepts of adult learning. Knowles has consulted worldwide on how adults learn for such corporations as IBM, General Electric, and Polaroid. Production will be handled at Indiana University in Bloomington.

Contact: Carol Koffarnus, CEN, 312/545-7500.

Articles

Keen, Cynthia. "Teleconferencing for the Small and Medium-Sized Company," Telemarketing, July 1984, pp.14-17. An overview of teleconferencing and its benefits for training and meetings.

"Med School Plans on Video System for Training Students," Telcoms, July 1984, p.8. A report on Jefferson Medical College (Pa.)'s use of videoconferencing for linking off-campus students with on-campus faculty.

Videodisc

Articles

Butler, Ron. "Videotape vs. Laser Videodisc," Videodisc Monitor, July 1984, p.14. A discussion of the use of videodiscs and videotapes: how they differ and are alike.

Horton, Cleveland. "Cooperative Venture Makes Disc Affordable," Video Manager, July/August 1984, pp.1,50. A look at Sharedisc at product of Trilogic, Inc. that disperses the overall cost of mastering a videodisc by selling space on the disc.

"Training Technology Transfer Act," Videodisc Monitor, July 1984, p.5. A report on a Senate bill that would promote the transfer of government-developed training and educational software in the public domain for more widespread use.

Videotape

Articles

Gupta, Udayan. "Nonentertainment Cassettes Inch into Home Video Market," Electronic Media, July 26, 1984, p.19. A look at the growth of nonentertainment videocassette sales and the subsequent release of more instructional tapes to the home market.

"In-School Series Reviews Instructional Software," ETV Newsletter, July 23, 1984, p.6. A announcement of a new series from Kentucky Educational Television that will review new computer software for instructional use.

"The Video Revolution," Newsweek, August 6, 1984, pp.50-57. An examination of the videocassette recorder and how it is changing Americans' lifestyles.

Videotex/Teletext

Articles

"At SF State, Free Is the Key to Videotex Success," Telcoms, July 1984, p.7. A profile of San Francisco State University's videotex system run on its cable channel.

Freedman, David. "Your Check Is In... the Phone Line," High Technology, August 1984, pp.30-32. An overview of the videotex projects offering banking services in the home.

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[] Telecourses Inventory, 1984 at $20 per copy Inventory ___

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MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Master's Students Continue Education Via Teleteaching

The School of Bilingual Education at the University of Colorado, Boulder offers distance education to master's degree students via freeze-frame video and audioconferencing. The three credit-hour course, "Teaching Reading in the Bilingual Classroom," is offered during the regular school year when program participants are teaching school in their home communities, but want to continue their master's degree program.

A classroom at the University of Colorado, Boulder is equipped with camera and freeze-frame video transmitter to present visual material plus an interactive telephone system for class lectures and questions. The central office of a Pueblo elementary school and the faculty room of a Durango elementary school serve as the remote sites, equipped with conference microphones and freeze-frame video receivers. All classrooms are connected through a conference bridge in Denver. A grant from the U.S. Department of Education, Office of Bilingual and Multicultural Education currently pays for the bridge and phone line charges. Colorado Video, Inc., manufacturer of the freeze-frame video and audio conferencing equipment has loaned the University of Colorado its equipment for the project.

The class involves lecture and instruction with transparencies, graphs, charts, and views of speakers transmitted via freeze-frame video. Other courses taught via teleconference include "Introduction to Bilingual and Multicultural Education," and "Seminar in Bilingual and Multicultural Education."

Contact: David McIntosh, Colorado Video, 303/444-3972.

Articles

Clark, Ruth, and Clark, Richard. "Instructional Media vs. Instructional Methods," Performance & Instruction Journal, July 1984, pp.1-3. Guidelines for selecting media for training.

"FCC to Consider D.C. Cable-Telco Venture," CableVision, July 30, 1984, p. 41. A report on District Cablevision's joint venture with C&P Telephone to wire Washington, D.C. for cable TV and the FCC regulations it must meet.

Kowits, Gerald, and Smith, Jay. "Instructor Image, Attitudes & Technology Usage," Performance & Instruction Journal, July 1984, pp.11-13. A discussion of the use of educational technology and why it is not used more widely.

Lavers, Daphne. "A New Revenue Stream for Cable?" Cable Communications Magazine, June 1984, pp.14-15. A look at TalkTo 109, a residential and small telephone system that will be marketed to cable operators as a new service.

Schneider, Mary. "Linking Television and Computers," Link-Up, August 1984, pp.46-47. A report on the increasing use of computers in television braodcasting.

"Teaching Computer Techniques with Video," E&ITV, July 1984, pp.26-32. A discussion of the Agency for Instructional Television's Video/Computer Project.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

University of Kentucky Sets Up Computer Network for Vocational Educators

A pilot project designed to assist vocational teachers in becoming familiar with and using microcomputers has been established at the University of Kentucky through a computer network. Classroom teachers participating in the project are loaned computer modems and appropriate software which allow them to connect one of their TRS-80 model III microcomputers to a microcomputer at U of K via phone lines.

The activities of the project allow each participant an opportunity to learn to prepare simple programs in BASIC language, utilize those software programs already purchased by their school systems, select software to meet their needs, and seek assistance with computer and software problems as they arise.

Participants meet initially with U of K faculty for sessions during which project requirements are explained and equipment usage is demonstrated. Participants also have access to a software library containing a variety of programs designed for business, consumer, and basic skills; motivation; and other instructional uses. They may reserve computer time at the University to examine the programs at length.

Contact: Kawanna Simpson, U of K, 606/257-3600.

CONFER and MERIT Make Computer Conferencing in Michigan Cost Effective

The University of Michigan's computer conferencing system, CONFER, together with the telephone system MERIT is providing an inexpensive way for educators to exchange information in Michigan.

Institutions wishing to use the system pay $40 for CONFER membership plus $6 per hour to connect into the computer network. Additional telephone charges can be eliminated through MERIT a special telephone system supported by four universities. University of Michigan, Michigan State University, Wayne State University, and Western Michigan University have established the network for data transmission between the schools. This system can be used for free when calling from East Lansing, Detroit, and Kalamazoo. Members calling from outside these cities can use the phone system, Telenet, which costs approximately $6 per hour during the day.

Currently more than 1000 members communicate in public and private conferences for a total of approximately 3000 hours per month. The system is used for a wide variety of purposes: Independent Investors Forums uses CONFER as one way of distributing their newsletter, the National University Teleconference Network administers the consortium through the system, and the Regional Educational Media Directors use the system to discuss issues and policies involving the uses of technology in Michigan public schools.

Contact: Michael Waggoner, Professional Development Office, University of Michigan, 313/763-9497.

Articles

Alexander, Tom. "Computing with Light at Lightning Speeds," Fortune, July 23, 1984, pp.82-88. A report on op-

tical processing, a technology that uses light waves to do the work of electrons in computers.

Bourque, Joseph, and Ramage, Kathleen. "Let's Stop the Sleaziness that's Creeping into Computer Conferences," Chronicle of Higher Education, August 1, 1984, p.56. A commentary on academics using computer conferences to hawk software and equipment.

"Collective Criticisms of Computers in Education," ETV Newsletter, July 8, 1984, p.8. A description of the Summer 1984 issue of Teachers College Record and its series of articles criticizing the use of computers for teaching.

"A Computer for Every Need," Advertising Age, July 19, 1984, p.44. A profile of a graduate student at Carnegie-Mellon University: his access to and use of computers.

"Hardware Mfrs. Launch Attack on Ed. Market," Computer+Software News, July 2, 1984, p.17-18. A report on the top computer manufacturers and their plans for hardware donations to educators.

"Liberal-Arts Colleges Weigh Joining the Electronic Age," Chronicle of Higher Education, August 1, 1984, p.3. An overview of a three-day conference at Skidmore College that covered computers and liberal learning.

Neudecker, Tom. "Universities Seek Standards," InfoWorld, July 30, 1984, p.15. A report on the Higher Education Computing Consortium's recommendation that vendors of microcomputers develop standards for operating systems.

"Software Is for Sharing," Time, July 30, 1984, p.96. A discussion of free computer programs available through CompuServe and other bulletin boards.

Stiefel, Lauren. "Expect 2.2M Micros in Classroom by 1985," Computer+Software News, July 2, 1984, pp.1,12. A look at the projected use of computers in schools and colleges by 1985.

Thomas, Rex, and Boysen, John. "A Taxonomy for the Instructional Use of Computers," Monitor, May/June 1984, pp. 15-17, 26. A discussion of computer instruction that looks at the computer as a learning tool, not a teaching tool.

Turner, Judith Axler. "Growing Demand for Computer Courses Spurs Retraining of College Teachers," Chronicle of Higher Education, July 11, 1984, pp.23-24. A description of the National Computer Educators' Institute's successful attendance this summer.

"Using Graphics and Accounting Software in College Budget Projections," Chronicle of Higher Education, August 1, 1984, p.4. Notes on computer use for administrative purposes going on in several universities.

Interactive

Programs

Interactive Videodisc Consortium Formed

Seven broadcasting organizations formed an Interactive Videodisc Consortium for the purpose of systematically exploring and furthering the development of exemplary uses of the new videodisc technology in interactive learning.

This alliance is composed of public television stations WGBH/Boston, WNET/New York, WCET/Cincinnati, KPBS/Center for Communications/San Diego, WHRO/Norfolk (Virginia), the Nebraska ETV Network, and Maryland Interactive Technologies.

The consortium intends to develop an information exchange, conduct research, and increase interest in the potential of interactive technology in public broadcasting.

Contact: Jack McBride, Nebraska ETV Network, 402/472-3611.

INDEX

A listing of periodicals cited in this issue of Telescan

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Business Week. McGraw-Hill, Inc., 1220 Avenue of the Americas, New York, NY 10020.
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Current. Current Publishing Committee, Box 53358, Washington, DC 20009.
E&ITV. Charles S. Tepfer Publishing, Inc., 51 Sugar Hollow Road, Danbury, CT 06180.
Electronic Media. Crain Communications, 740 Rush Street, Chicago, IL 60611.
ETV Newsletter. Charles S. Tepfer Publishing, Inc., 51 Sugar Hollow Road, Danbury, CT 06180.
Fortune. Time, Inc., Time-Life Building, New York, NY 10020.
High Technology, Technology Publishing Co., 38 Commercial Wharf, Boston, MA 02110.
InfoWorld. Popular Computing, Inc., 1060 Marsh Road C-200, Menlo Park, CA 94025.
Link-Up. On-Line Communications, Inc., 3938 Meadowbrook Road, Minneapolis, MN 55426.
MIN (Media Industry Newsletter), William Barlow Publishing, 18 East 53rd Street, New York, NY 10022.
Monitor. Learned Information, Ltd., Besselsleigh Road, Abingdon, Oxfordshire, OX12 6LG ENGLAND.
Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
NFCB Newsletter. National Federation of Community Broadcasters, 1314 14th Street, NW, Washington, DC 20005.
Newsweek. Newsweek, Inc., 444 Madison Avenue, New York, NY 10036.
Performance & Instruction Journal. National Society for Performance & Instruction, 1126 16th Street, NW, Suite 315, Washington, DC 20036.
PSSC Newsletter. Public Service Satellite Consortium, 1660 L Street NW, Suite 907, Washington, DC 20036.
Radio World. Industrial Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, VA 22041.
Technology Review. M.I.T. Alumni Association, Room 10-140, Cambridge, MA 02139.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
Telephone Angles. P.O. Box 633, West Hartford, CT 06107.
The TeleSpan Newsletter. TeleSpan, 50 West Palm Street, Altadena, CA 91001.
Time. Time, Inc., 3435 Wilshire Boulevard, Los Angeles, CA 90010.
TRAC Tele-Tips. Telecommunications Research and Action Committee, 1530 P Street NW, Washington, DC 20005.
U.S. News & World Report. U.S. News & World Report, Inc., 2300 N Street NW, Washington, DC 20037.
Videodisc Monitor. Future Systems, Inc., P.O. Box 26, Falls Church, VA 22046.
Videography. United Business Publications, Inc., 475 Park Avenue, South, New York, NY 10016.
Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.
Video Systems. Intertec Publishing Corporation, 9221 Quivira Road, Overland Park, KS 66212.

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TELESCAN

OCTOBER 1984

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 2

Highlights

PRESIDENT VETOES FUNDING BILL FOR PUBLIC BROADCASTING

President Reagan vetoed the CPB authorization bill that would have provided public TV and radio $238 million in fiscal 1987, $253 million in fiscal 1988, and $270 million in fiscal 1989. Reagan said, "Under S2436 federal funding for public broadcasting would be increased by too much too fast."
Washington Post, August 30, 1984, pp.C1,C16. Also see Legislative Update, this issue, p.2.

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Project Athena Launched by MIT.....Page 7
Six Videodisc Projects Receive Awards.....Page 8

Focus On:
Teleconferencing

by Joan Gudgel and Art Sheekey
(First in a series of articles that will explore the trends of teleconferencing for educational purposes.)

Satellite teleconferencing can be traced back to the middle 1970's when NASA launched the Applied Technology Satellite (ATS-6). The ATS-6 was a high-powered satellite utilized for a number of experimental educational teleconferences funded by HEW. Over the past five years, a wealth of satellite teleconferencing networks have been launched to distribute programming, connect campuses and affiliates, or generate revenue through leasing the network.

The increased number of communications satellites, more powerful satellite transponders, and much smaller, less expensive ground receivers have stimulated the formation of these networks. A Western Union study interviewing representatives of prominent market research firms, universities, and major telecommunication operations estimated that by 1990 teleconferencing will be the dominent user of satellite transponders, consuming almost half of the total transponder demand.

Chronologically, the picture looks like this:

1974 ATS-6 launched
1978 Appalachian Community Service Network

(Continued on Page 2)

(Continued from Page 1)

1980 Hi-Net (Holiday Inns)
AT&T Picturephone Meeting Service
Civic Affairs Network (Bell & Howell)
Satellite Business Network
VideoNet

1981 ConferSat
NetCom

1982 National University Telecommunications Network
Marriott Hotels

1983 College Campus Network
Hyatt Regency Network

These networks are available for public lease; many more networks have been established for private use. Here is an update on networks involving educational institutions:

- PBS's ConferSat uses the existing facilities of public broadcasting stations around the country to provide a videoconferencing network via Westar IV. The 170-site videoconferencing network is available for lease with cost based on the length of the conference and the number of sites. ConferSat pays PBS stations for the use of their facilities as conference sites and downlinks, thereby helping them to generate revenue. Twenty-five teleconferences were conducted in 1983 and the same number is expected in 1984. Contact: Ann Nall, ConferSat, 202/488-5181.

- With more than 1.5 million members throughout the 50 states, the National Educational Association (NEA) is one of several major organizations making use of teleconferencing. In 1982, the NEA demonstrated a successful application of teleconferencing when it needed to alert several thousand members of the drastic budget cuts proposed by the Reagan Administration. The

(Continued on Page 11)

Legislative Update

Broadcasting

Congress has worked quickly to answer the President's veto of S2436, Senator Barry Goldwater (R-Ariz.) offered a substitute amendment to S607 that passed the Senate September 20. The new provisions authorize CPB funding levels at $200 million in FY 1987, with 15% increases in 1988 and 1989. Representative Michael Oxley (R-Ohio) has submitted a compromise bill, HR6230, in the House that proposes authorization at $186 million in 1987, with 15% increases in 1988 and 1989.

Both CPB and the Public Telecommunications Facilities Program (PTFP) have appropriations through 1986.

Contact: Laura Ginsberg, CPB, 202/293-6160.

Cable TV

Two recent decisions by the FCC and one Supreme Court ruling have delivered serious blows to the status of local cable TV regulation.

On July 25, the FCC denied the Cable Televison Information Center's petition to reconsider its Community Cable TV vs. Nevada ruling over rate regulation. This ruling limits local government regulation of rates to basic service only and gives the cable operator the power to define basic service.

In another ruling the FCC has denied the city of Miami's request for additional funds from its cable operator for management of the community access channels. The FCC has ruled that access serves a minority interest and therefore a cable company cannot be forced to pay for its operation, regardless of the terms of the franchise agreement.

The Supreme Court unanimously ruled that a Oklahoma state law regarding cable program content is preempted by federal rules in Capitol Cities vs. Oklahoma Alcohol and Beverage Board. The cable industry is pointing to this ruling as a precedent for extending federal control over cable regulation.

Contact: Sue Buske, NFLCP, 202/544-7272.

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

Ball State University Offers Speaker Telephone Graduate Course

This fall, Ball State University's Teacher College through the Department of Special Education will offer a speaker telephone graduate course for school personnel serving handicapped children in Indiana. The course is an extension of a three-year speaker telephone continuing education grant sponsored by the Indiana Department of Public Instruction Division of Special Education in cooperation with the Purdue University's Department of Audiology and Speech Sciences.

The grant's goal was to deliver information directly to school personnel without the need for participant travel. Of the 2,438 project evaluations completed by the staff of 64 participating educational organizations, 87% agreed that the speaker telephone model for information dissemination was excellant. This year's extension project will enable Indiana institutions of higher education an opportunity to explore the potential of this telephone network for graduate coursework.

The speaker telephone seminar on patterns and measurement of emotional disturbance is available for credit at 64 sites throughout Indiana. Speaker telephone rooms are set up at some institutions and loaner speaker telephones are available on a limited basis for sites without equipment. Phone calls are toll free.

Contact: Robert Showalter, Audiology and Speech Sciences, Purdue University, 317/494-3792.

Telephone

Articles

"AT&T Gets One O.K. That Riles MCI and the Locals," Business Week, September 3, 1984, p.72. A report on MCI and Bell companies' move to reverse an FCC decision that would allow AT&T to sell its equipment in a package along with its long-distance service.

"The Push to 'Bypass' Local Telephone Companies," Business Week, August 27, 1984, pp.90-92. An overview of the bypass concept and its applications.

Radio

Articles

"FCC Files," Radio World, August 15, 1984, pp.2,4. A report on FCC action concerning radio, including a petition to allow noncommercial FM translators to receive microwave and satellite feeds.

"FM Deregulation Opens New Markets," High Technology, September 1984, pp.22-25. An explanation of FM subchannels that as a result of FCC deregulation may now carry computer data, voice paging, and stock quotes.

Ronaldi, Lynn. "NPR Reverses Financial State," Radio World, September 1, 1984, pp.7,14. A description of NPR's recent FCC lottery prize, a channel for the National Satellite Paging Network that will help pull NPR out of its financial slump.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Michigan Plans Cooperative ITV Effort

Michigan's regional education media centers are working to bring together public broadcasters and educators in a statewide cooperative effort to make instructional television more accessible. The REMCs are submitting a proposal to the Michigan State Board of Education to fund a statewide group purchase of ITV programming that would allow Michigan's public TV stations to acquire ITV programming at a much reduced cost. Michigan plans to coordinate this effort through the Central Educational Network.

Other projects the REMCs hope to accomplish through the funding include:

- o developing a cooperative purchasing service that would enable schools to acquire telecommunications equipment at discounted prices,
- o coordinating inservice presentations utilizing ITV and various new technologies,
- o providing ITV programming and other information instantly via computer to all REMCs.

Contact: Carol Koffarnus, CEN, 312/545-7500.

Urbanet Will Provide Educational Programming Via MDS

Microband Corporation has reached agreement with major educational institutions to lease time on their ITFS channels for broadcasting instructional programming via MDS. (On May 26, 1984, the FCC authorized ITFS stations to lease their excess and unused broadcast capacity to commercial MDS operators.) Microband's programming service, Urbanet, will offer specialized educational programs as well as standard pay TV entertainment packages.

Some of the educational institutions that will participate in the project are:

- Harvard University,
- University of California,
- Pennsylvania Hospital TV Network,
- Atlanta Public Schools,
- District of Columbia Public Schools,
- Maryland Elementary and Secondary Public Education Development Foundation,
- Network for Instructional TV,
- Hispanic Information and Telecommunications Network.

The service will be launched in various parts of the country later this year.

Contact: Mark Foster, Microband Corp., 212/867-9590.

Articles

Easton, Ken. "High Definition Television," Cable Communications, July 1984, pp.5-7. A description of HDT: its promise and problems for broadcasting.

"FCC Adopts New Interim Processing Standards for ITFS Applications," Current, August 14, 1984, pp.1,10. An explanation of the FCC's new regulations for operation of ITFS.

Mastroberardino, Joy. "Interview," Current, p.5. An interview with the president of PBS, Bruce Christensen.

Sims, Lexie. "PBS Serves Needs of Adult Learners," Instructional Innovator, May 1984, p.17. A discussion of PBS's Adult Learning Service.

"The Stage Is Set for a Broadcast Buying Binge," Business Week, August 13, 1984, pp.61-65. A report on the effect of removal of the 7-7-7 rule on broadcasting ownership.

"WTTW Chicago: Television's First Stereo Station," Broadcasting, August 13, 1984, pp.60-61. A look at the first TV station to regularly broadcast in stereo sound and the move by others to do the same.

Cable Television

Programs

University of Houston Develops Cable/ Microwave Telecommunications System

The University of Houston plans to establish a communications system that will combine fiber optics, coaxial cable, and microwave to link UH's four campuses and the West Houston Institute and Texas Medical Center.

The network will provide an opportunity for the six sites to share vital information including data, voice, and video to make University resources available to a wider audience.

A fiber optic and coaxial cable system has already been laid at the University Park campus. It is currently used to originate public TV station KUHT's on-campus programming, broadcast teleconferences, and transmit telecourses. A similar system will be installed at all UH components with a microwave system linking them together.

Contact: Steffanie Gibbons, UH, 713/749-7224.

Articles

"CT Group Sues State over Law for Channel Use," Multichannel News, August 20, 1984, p.47. A report on the Connecticut Cable Television Association's suit against the state of Connecticut over a new law requiring operators to devote one channel to a state-run instruction service.

Jenning, Steve. "Portland Op, Citing Miami Ruling, Withholds Payment to Access Group," Multichannel News, August 20, 1984, p.6. A discussion of Rogers Cablesystems' refusal to pay its public access fees in Portland, Ore. pending the outcome of the FCC decision on TCI's access requirements in Miami, Fla.

McPherson, Kevin. "Can Education Find a Home on Cable TV," Instructional Innovator, May 1984, p.25. A discussion of cooperative efforts possible between cable operators and educators.

"Miami News Goes Cable with Daily Newscasts," CableVision, August 13, 1984, p.21. A report on The Miami News' premiere of Newsline, daily five-minute newscasts carried over the local educational access channel.

"NFLCP Commissions National Study on Local Programs," CableVision, August 20, 1984, p.46. An announcement of a new study by the NFLCP on viewership of cable community programming being conducted by Western Michigan University.

Spillman, Susan. "TV Network Tries to Extend Campus Reach," Advertising Age, August 6, 1984, p.46. An update on Campus Network, an advertiser-supported entertainment service that will be transmitted to universities via satellite for closed-circuit or cable play.

Satellites

Articles

Taylor, John. "Early-Entry DBS Could Benefit from Its Time Lead," CableAge, August 20, 1984, pp.25-31. A look at the United Satellite Communications' launch of a low-power DBS system and how this might benefit its plan for high-power DBS.

"To Know the Players, You Need a

Program," DBS News, August 1984, pp.2-3. An overview of the eight original DBS applicants given construction permits by the FCC and their progress in launching their services.

"Why Direct Satellite TV Is Down But Not Out," Business Week, August 20, 1984, p.127. A discussion of the viability of DBS--the market is still there.

Teleconferencing

Articles

"College Freeze-Frame Net Looking for Participants...," Telcoms, August 1984, p.12. A report on Colorado Video Inc.'s plan to establish a nationwide freeze-frame network.

Oberle, E. Marie and Quinn, Helen. "The National University Teleconference Network: Born of Adventure and Experiment," E&ITV, August 1984, pp.32-36. A profile of NUTN: how it began and continues to operate.

"Nebraska Inter-Campus Network Gets Two Programs On One Channel," E&ITV, August 1984, pp.41, 44. An explanation of Vidiplex, a system that allows Nebraska University to transmit two video sources at the same time for inter-campus adminstrative meetings and video courses.

Videodisc

Articles

Floyd, Steve. Videodisc Production: A Cost Comparison," The Videodisc Monitor, August 1984, pp.12-13. A discussion and chart outlining a budget and timetable for videodisc production.

"LRN Moves to Disc," The Videodisc Monitor, August 1984, p.4. A report on plans by the Learning Resources Network to convert its network of college choice centers to laser videodisc.

Videotape

Articles

Murray, David. "Telecourses in a Learning Laboratory," Journal of Continuing Higher Education, Summer 1984, pp.25-27. A report of survey results from the University of Kentucky's media-based education program designed to identify the value of the learning laboratory.

Thompson, A.H. "Guidelines for the Use of Video in Libraries," Journal of Educational Television, Vol. 10, No. 2, 1984, pp.91-96. An examination of the reasons for using video in libraries and how to exploit that use to communicate effectively.

"VCR's," Broadcasting, August 20, 1984, pp.42-50. An overview of the history and future of the videocassette recorder and its effect on the broadcasting industry.

Videotex/Teletext

Articles

"T-M Videotex Sells Ads Worth $1 Million," Multichannel News, August 20, 1984, p.25. A report on Times Mirror's Videotex service that sold over $1 million in advertising in its first year of operation in southern California.

"Videotex Shopping Takes Root for Farmers," Electronic Media, August 23, 1984, p.12,18. A discussion of Agri-Data Network's new service offering farmers the chance to buy and sell via videotex.

Wallace, Bob. "Videotex Moves Out of the Home," ComputerWorld on Communications, August 1, 1984, pp.14-16. An overview of the current status of the videotex industry.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

MIT Launches Project Athena to Explore Computer Use in Instruction

Project Athena is a five-year experiment launched by Massachusetts Institute of Technology to explore the educational potential of computer technology in college instruction. Digital Equipment Corporation and IBM Corporation will provide the equipment, software, service, and maintenance for the project through $50 million in grants over the next three to five years.

Project Athena will experiment with powerful new computational and interactive graphic capabilities to develop new ways to learn and share information. The goals of the project are two-fold: tapping new computational and graphic power to develop innovative ways to help students grasp abstract concepts, and developing "coherence" among various suppliers of hardware so that all machines will function with a common protocol and operating system.

Annenberg/CPB is providing additional funds to MIT to expand teaching and learning of foreign languages through the Athena Project. Four semesters of computer-based exercises will be developed for teaching German, Spanish, French, Russian, and English as a Second Language. Project Athena will also develop new hardware and software that will analyze and give immediate feedback about students' pronunciation and intonation.

Contact: Cecilia d'Oliveira, Project Athena, 617/253-1325.

ADVOCNET: New Electronic Mail Service for Vocational Education Community

A new electronic mail network has been established by the National Center for Research in Vocational Education under the sponsorship of the Office of Vocational and Adult Education. ADVOCNET can provide a wide variety of services, but will focus primarily on electronic mail to improve communication among adult and vocational education agencies.

ADVOCNET, the Adult and Vocational Education Electronic Mail Network, will be delivered through ITT Dialcom, a unit of International Telephone and Telegraph Corporation. Other applications of ITT Dialcom are designed to accommodate the growing needs of ADVOCNET members including:

- access to other databases,
- text processing,
- database management system,
- electronic publishing,
- custom programming.

Contact: Judy Wagner, National Center for Research in Vocational Education, 614/486-3655.

Articles

"Big Blue Adds to Its Arsenal," Newsweek, August 27, 1984, p.58. A report on IBM's new PC AT, a microcomputer with the memory and power of a mainframe computer.

Bisson, Giselle. "Most Software Doesn't Excite Teachers," InfoWorld, September 10, 1984, p.33. A discussion of the limitations of available educational software.

Caruso, Denise. "Computers for a Community," InfoWorld, September 3, 1984, p.13. A profile of the Community Memory Project, a collective effort in

Berkeley, Cal. that gives the community access to computer terminals and data.

Caruso, Denise. "Networking Bulletin Boards," InfoWorld, August 27, 1984, pp.29-31. A report on Fidonet, a network of electronic bulletin boards.

Caruso, Denise. "Teachers Learn to Teach Computing," InfoWorld, September 10, 1984, pp.36-37. A look at universities' attempts to promote computer literacy among teachers.

Chin, Kathy. "How-To Software: No Hits Yet," InfoWorld, September 3, 1984, pp. 40-41. An evaluation of the wealth of how-to software programs currently on the market.

Cohen, Karen and Meyer, Carol. "Robotics: Using Technology to Teach New Technologies," T.H.E.Journal, pp.88-89. An overview of curriculum developed by Continuous Learning Corp. for robotic courseware.

"Communiques," InfoWorld, September 10, 1984, p.43. A description of Civitex, a community-oriented information service that offers free examples of successful citizen-initiated community projects.

"Computer vs. Classroom: Which Trains Best?," Professional Trainer, Summer 1984, pp.1, 7. The results of a study conducted by Dayton-Hudson Coporation comparing learning gains and adminstrative efficiencies of computer vs. classroom training.

Cross, Thomas. "Computer Conferencing," Computerworld on Communications, August 1984, pp.37-39. An overview of the computer teleconferencing technology.

Feldman, Paula. "Personal Computers in a Writing Course," Perspectives in Computing, Spring 1984, pp.4-9. An explanation of the use of computers in a business writing course at the University of South Carolina.

"Grapevine," InfoWorld, August 20, 1984, p.28. An announcement of the establishment of a database for library microcomputer users by the Public Library Association Task Force on the Use of Microcomputers.

Ireland, Jeanetta. "Faxon LINX at Brodeis University Libraries: A User's Appraisal," Library Hi Tech, Issue 5, pp.29-35. An examination of the Faxon LINX On-line Remote Access Serials Management System that maintains Brandeis' serials collection.

Interactive

Programs

Six Innovative Videodisc Projects Receive Awards

Nebraska Interactive Videodisc Awards honored six innovative videodisc developers at the Fifth Annual Nebraska Videodisc Symposium. The achievement awards recognized outstanding contributions to the development of videodisc technology under the theme of "The Industry Comes of Age."

Six projects were chosen from more than 260 U.S., Canadian, and foreign representatives. Best Educational Achievement Award went to the University of Iowa's Weeg Computing Center for the creation of the videodisc "Assessment of Neuromotor Dysfunction in Infants," which acquaints heath-care professionals with a range of experiences not available in a typical observation-based setting.

Best Industrial/Military Achievement was presented to ICS/Inext for "Troubleshooting Microprocessors," an integration of print and interactive videodisc materials onto a level three videodisc system.

Best Consumer Achievement Award went to Chrysler Corporation Automobile Electronics for "Class," a videodisc that provides detailed maps of every highway in the U.S.

Best Visual Data Bank Application was presented to Videodisc Publishing

for "National Gallery of Art," an archival videodisc on the famous art collection housed in the National Gallery of Art.

Best Overall Project went to ByVideo Inc. for "ByVideo Disc 4," a point-of-purchase videodisc for video shopping by credit card customers.

Special Recognition was given to the Office for Interactive Technology and Training of the University of West Florida for its microcomputer/videodisc-based training package for the Florida Department of Health and Rehabilitative Services (see Telescan, Vol.3, Issue 6 for further information on this project.)

Contact: Mary Neal Schultz, Nebraska ETV Network, 402/472-3611.

Articles

Gindele, John and Gindele, Joseph. "Interactive Videodisc Technology and Its Implications for Education," T.H.E. Journal, August 1984, pp.93-97. An overview of the history and development of videodisc technology and its implications for education.

Novak, Arnie and Ver, Mark. "Attributes & Advantages of Interactive Videodisc," Instructional Innovator, May 1984, p.30. A report on producing optical videodiscs for interactive music instruction.

"The $49 Interface," The Videodisc Monitor, August 1984, p.1. An announcement of VidLink, a direct interface for connecting a Pioneer LD-700 to a Commodore 64 computer.

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[] Telecourse Inventory, 1984, at $20 per copy **Inventory** ____

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MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Telecommunications Information Network Demonstrates the Use of Slow-Scan TV

The Telecommunications Information Network (TIN) is a slow-scan television system that links the University of Cincinnati Medical Center with two remote hospitals in Southwest Ohio. The purpose of the link is to give the remote areas access to new medical information available from the university's Health Sciences Library and Drug and Poison Information Center.

The TIN is activated when a health-care professional at a remote site telephones the Medical Center with a question. When a visual image is required to respond to the question, slow-scan television is used. The system transmits such information as article abstracts, data on risks/benefits, and detailed information on particular diseases.

Nancy Lorenzi, director of the Medical Center Libraries reports frequent use of the system, with physicians representing the largest user group.

Contact: Nancy Lorenzi, Medical Center Libraries, University of Cincinnati, 513/475-8000.

Articles

Gits, Victoria. "Making Radio Waves," CableVision, August 13, 1984, p.29-33. A report on how cable operators might enter the budding mobile telephone field.

Gupta, Udayan. "New Videoconference System Merges Existing Technologies," Electronic Media, August 9, 1984, p.12. An explanation of Inforum, a system that effectively merges information processing and videoconferencing.

"Here Come the Computers," Telcoms, August 1984, pp.1-4. The second in a series of articles on the entrance of computers into teleconferencing.

"Is the 'Computer-Phone' Market Ready to Explode?" BusinessWeek, August 1984, p.101. An announcement of ES.3, a new stand-alone unit that combines high-powered phone options with the computing power of the IBM PC.

McIntosh, David. "Interactive Distance Learning Technologies," E&ITV, August 1984, pp.47-48. A discussion of how the California State University, Chico is using ITFS, microwave, computers, slow-scan video, and a satellite receive station to link distant learners with the Chico campus.

Ostendorf, Virginia. "Anyone Can Do It," Computerworld on Communications, August 1984, pp.25-30. An overview of audio and video teleconferencing and their combined uses.

Sessions, Judith and Haworth, Cathy. "The Telecommunications Information Center at George Washington University: A Prototype," Library Hi Tech, Issue 5, 1984, pp.63-65. A profile on CTS, a specialized center that provides reference information in policy, research, and management of telecommunications.

Books

Society's Stake in the Communications Future. James Traub. Aspen Institute, 717 Fifth Avenue, New York, NY 10022. 1983. 14pp. $4.95.

A report on a 1982 meeting for foundation representatives, held by the Aspen Institute, that discusses the impact of the communications revolution and predicts future trends.

Teleconferencing

(Continued from Page 2)

experience led NEA to plan and develop its own dedicated network, EdNet, which links 21 state affiliates, with plans to connect all 50 in the future. EdNet was launched in 1983 as a cost-effective means of enhancing NEA's internal communications. An hour of programming is transmitted via the network each week. The second half of the hour is devoted to association news and often offers two-way question and answer periods. Contact: Frank Grasso, NEA, 202/822-7212.

• The Campus Conference Network was developed in 1983 by Services by Satellite, Inc. (SatServ) with the cooperation of the Public Service Satellite Consortium. It will become operational in Fall 1984 and eventually link campus-based facilities in major cities throughout the U.S. As of September 1984, 35 institutions of higher education in 22 states have become affiliates or associates. CCN members are expected to purchase an earth station to receive satellite broadcasts and provide TV monitors and appropriate telephone connections for teleconferences. SatServ assumes the responsibility for booking clients. Approximately half of the fees collected for a teleconference will be given to the participating institution. In addition to generating revenue CCN members will gain access to a variety of special and national programming Contact: Deborah Gillman, SatServ, 202/331-1154.

• Since 1982, approximately 100 colleges and universities have become members of the National University Teleconference Network, a consortium of institutions of higher education that share programming resources through teleconferencing. NUTN members have the opportunity to originate and receive teleconference and two-way communications services via audio, video, and computer. NUTN has an agreement with VideoStar Connections, Inc. which provides the satellite interconnection services, and satellite earth dishes for the teleconferences, while NUTN members provide the conference site facilities. Twenty programs will be shared by the network during the 1984 calendar year. On October 16, 1984, NUTN will conduct its largest teleconference linking approximately 100 sites to present the "World Food Day Teleconference." The teleconference will originate from George Washington University in Washington, D.C. Contact: Marie Oberle, NUTN, 405/624-5191.

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The Center for Learning and Telecommunications was established in 1980 under a grant from the Carnegie Corporation to provide the postsecondary community with objective information on the use of telecommunication technologies in delivering instruction. The Center publishes Telescan on a monthly basis to assist academic decision-makers in discovering the programs, projects, research, and other initatives that effectively utilize technology in postsecondary settings.

Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

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A listing of periodicals cited in this issue of Telescan

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CableAge. Television Editorial Corporation, 1270 Avenue of the Americas, New York, NY 10020.
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Chronicle of Higher Education. Chronicle of Higher Education, Inc., 1333 New Hampshire Avenue NW Washington, DC 20036.
Computerworld on Communications. CW Communications, Inc., 375 Cochituate Road, Framingham, MA 01701.
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Journal of Continuing Higher Education. Association for Continuing Education, 212 Keller Building, University Park, PA 16802.
Journal of Educational Television. Carfax Publishing Company, P.O.Box 25, Abingdon, Oxfordshire, OX14 3UE. ENGLAND.
Library Hi Tech. Pierian Press, Inc. P.O. Box 1808, Ann Arbor, MI 48106.
Monitor. Learned Information, Ltd., Besselsleigh Road, Abingdon, Oxfordshire, OX12 6LG, ENGLAND.
Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
Newsweek. Newsweek, Inc., 444 Madison Avenue, New York, NY 10036.
Perspective in Computing. International Business Machines Corp., 44 South Broadway, White Plains, NY 10601.
Professional Trainer. McGraw-Hill Training Systems, P.O. Box 641, Del Mar, CA 92014.
Radio World. Industrial Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, VA 22041.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
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TELESCAN NOVEMBER 1984

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 3

Focus On:

Teleconferencing

In the past five years, the technologies associated with satellite teleconferencing have improved at a rapid pace. The proliferation of transportable earth stations has encouraged videoconferencing on an ad hoc basis, allowing any community in the continental U.S. to obtain an uplink or a downlink.

Videoconferences continue to be transmitted one-way video and two-way audio, but new innovations in two-way videoconferencing have paved the way for future use of this technology. Point-to-point systems like Picturephone Meeting Service and ISACOMM dominate the shared use network area, while corporations like CitiBank, J.C. Penney, Aetna, and Allstate have continued to expand their private networks.

Decoding and incoding techniques were developed to protect programs during transmission. And 56 kilobit compression provides for much more economical video transmission.

Audiographic options have expanded greatly over the past five years, offering alternatives to full video transmissions. Electronic blackboards and freeze-frame/slow-scan equipment lead in this area. But computer graphics offers another alternative.

Direct Broadcast Satellite service would move teleconferencing from large centralized meeting areas into the home, but national DBS systems are not

(Continued on Page 2)

(Continued from Page 1)

expected to be fully operational until 1992.

All of these technological advancements aside, it is probably the availability of Ku-Band satellites, able to reach very small (one meter or less) receivers, that will have the most dramatic effect on the teleconferencing industry.

The first Ku-Band satellite was CTS, a joint venture for the U.S. and Canada launched in 1976 and used primarily for videoconferencing. Since then the number of Ku-Band satellites has expanded greatly. Satellite Business Systems of McLean, Va. operates four Ku-Band satellites that cover all 50 states and is planning another launch in 1987. Private Satellite Network and Videostar now offer SBS transponder time for lease.

This increased availability of Ku-Band satellites has created easy access to urban areas. By using these high frequency satellites, teleconferencers can place relatively small antenna dishes in urban areas unhampered by terrestrial microwave interference common in C-band receive stations. These small dishes can be installed easily on roofs or grounds of urban office buildings, assuring that teleconferences can be received almost anywhere.

With smaller, less expensive dishes, access to urban areas, and more demands for teleconferencing services, organizations will find dedicated networks more and more attractive over ad hoc teleconferencing. Comsat General announced this September, their plans to use this technology to build a national network for the American Bar Association and the American Law Institute. Next month, in the final article of this series on teleconferencing, TELESCAN will look at the Law Dedicated Network that will serve the continuing education needs of lawyers.

Contact: Public Service Satellite Consortium, 202/331-1154 or the Center for Interactive Programs, University of Wisconsin-Extension, 608-262-4342.

Legislative Update

Broadcasting

On October 5, the House passed Senate bill 607, authorizing a total of $675 million for CPB and $100 million for PTFP for fiscal years 1987-89. The House defeated amendments by Representatives Michael Oxley (R-Ohio) and William Dannemeyer (R-Cal.) to reduce authorization ceilings. S607 is Congress' compromise to S2436 vetoed by President Reagan in August. S2436 would have authorized $761 million for CPB and $159 million for PTFP. Reagan may veto the new measure also.

Contact: Laura Ginsburg, CPB, 202/955-5162.

Cable Television

On October 11, hours from adjourning for the year, Congress passed the Cable Telecommunications Act of 1984 into law. The passage of the legislation looked uncertain early in the week when conservatives bogged down HR4103 from entering into conference committee, protesting its equal employment provisions. The section that would have required cable operators to hire a certain percentage of women and minorities was dropped and the bill was passed on Thursday. The next issue of TELESCAN will report on the first national regulatory policy for cable TV and its affects on higher education.

Cable TV regulation was also the focal point of a recent New Orleans Federal District Court decision, this October. The court ruled against plans by Cox Cable of New Orleans to change its programming tiers and upheld the city's authority to invoke its municipal franchise agreement. Judge Veronica Wicker's decision stated that governing bodies are not pre-empted from entering into contracts requiring operators to provide specific offerings on the basic subscriber service tier nor are such contracts void as violating federal law. This ruling puts into question all FCC actions and the recently passed federal legislation that stands to break or amend existing contractual franchise agreements.

Contact: Sue Buske, NFLCP, 202/544-7272.

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

USDA Trains Employees Via Telephone

The U.S. Department of Agriculture's Soil Conservation Service (CSC) sponsored a four-day management training program in September that was conducted entirely by telephone. The management level IV required training course was taught simultaneously to 135 SCS managers in 13 cities throughout the U.S.

Donald Dearly, employee development officer for SCS, supported the effort saying, "Our agency anticipates realizing a savings of as much as 50% by using this medium for training."

The electronic course was converted from a traditional face-to-face plan by a training team of SCS personnel and consultants from Ostendorf, Inc. SCS used Qauoram microphones and Gemini electronic blackboards provided by AT&T Information Systems. During the class all students were able to hear and speak with instructors located in Denver and Washington, D.C. The electronic blackboards allowed the attendees to exchange written comments with all other sites.

Contact: Virginia Ostendorf, Ostendorf, Inc., 303/797-3131.

Radio

Articles

"CPB Gets $57.5 Million in Supplemental Appropriation," NFCB Newsletter, September/October 1984, pp.3-4. An evaluation of the 1984-86 appropriations for CPB and its effect on noncommercial radio.

"Docket 80-90 Survival Kit," Broadcasting, September 24, 1984, p.64. An explanation of the new ruling and strategies for applying for the new FM stations created through the document, 80-90.

"FCC Wants to Change Filing Procedures for New FM's, TV's," Broadcasting, September 17, 1984, p.86. A report on the FCC's proposal to scrap cut-off lists and replace them with filing windows.

Mastroberardino, Joy. "Wisconsin Experiments with Subcarriers," Current, September 11, 1984, p.S-7. A description of experimental use of FM sidebands for transmission of computer software on the Wisconsin public radio system.

"NPR Plus May Be Replaced," Current, September 25, 1984, p.2. An announcement that NPR and WGBH are seeking support for a new classical music service to replace NPR Plus.

Telephone

Articles

"University Challenge," Connections, August 13, 1984, p.6. A report on how several universites are establishing their own bypass systems to save the expense of AT&T voice and data transmission costs.

Wallace, Marcia. "Contracting for Interconnect Telephone Systems," Telephone Angles, September 1984, pp.4-5. Suggestions for drawing up contracts with interconnect system vendors.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Public Broadcasters Visit China

A delegation of public broadcasters visited China this October to discuss the exchange of programs and personnel, and to explore opportunities for co-productions. The delegation led by David Stewart, director of international actvities for CPB, presented excerpts from over 100 public radio and television programs including: "Soundstage," "Wonderworks," "Heritage: Civilization and the Jews," "Frontline," "All Things Considered," and "A Prairie Home Companion."

The exchange was made possible by a three-year grant for international activities from the MacArthur Foundation awarded to CPB. The grant became effective in fiscal year 1984. Thus far, it has assisted in financing exchanges with Latin American and European countries. The October exchange also included visits to Japan and Australia.

Edward Pfister, president of CPB, said, "It is a tribute to public broadcasting that we have opened the door to this historic exchange between the United States and the People's Republic of China. The possibilities are quite exciting."

CPB has already received a transmission from China of the 35th anniversary celebration of the Communist Revolution. The event was broadcast October 1 over most PBS stations.

Contact: Laura Ginzberg, CPB, 202/955-5162.

Articles

Danna, Sammy. "Video 'Down on the Farm'," E&ITV, September 1984, pp.75-81. A profile on the video production facilities at the University of Illinois College of Agriculture.

"Distribution Keeps Up with Changing Technology," Current, September 11, 1984, pp. S7,S12. A discussion of the various ways instructional television is distributed.

"ITV: A New Look for the '80s?" The Pennsylvania Connection, Fall 1984, pp.3-5. A description of "Science Unlimited," a new ITV series designed to stimulate curiousity about science.

Linfield, Susan. "Bennett Takes AIM," The Independent, September 1984, pp. 18-23. A report on Accuracy in Media's criticisms of the PBS Vietnam series and NEA's reactions as the primary funder of the series.

Mastroberardino, Joy. "PBS Circulates Draft Contract for Data Delivery Service," Current, September 11, 1984, pp.1,5. A discussion of the PBS plan for a data delivery service.

O'Connor, John. "When PBS Chose Docudrama over Documentary," Channels, September/October 1984, pp.68-69. A look at "Concealed Enemies," and how it came to be produced for public television.

"U.S. to Revise Low-Power Instructional TV Rules," Chronicle of Higher Education, September 5, 1984, p.20. An update on the FCC's ITFS rule-making and solicitation of comments until September 17th.

Werden, Frieda. "The Survivors: ITV Production Houses in 1984," Current, September 11, 1984, pp.S1,S4. An examination of the state of instructional television production.

Books

Televised Higher Education: Catalog of Resources (THE Catalog). Western Interstate Commission for Higher Education, P.O. Drawer P., Boulder, CO 80302. 1984. 350pp. $65.

A comprehensive listing of videocourses appropriate for postsecondary level study in 23 subject areas. Each entry includes course description, instructor, producer, distributor, texts, and cost of rental or purchase.

Cable Television

Articles

"Associated Press and Tribune Co. to Offer New Information Service," CableVision, September 10, 1984, p.31. An announcment of a joint venture, News Plus, that will provide 24-hour text news from the AP wire service.

"Boston Cabler Tests Waters of Non-Entertainment Nets," CableVision, September 17, 1984, p.38. A report on the activation of the Cablevision System's Public Institutional Network, which will eventually lead to the activation of a commercial institutional network.

"FCC Franchise Fee Ruling in 'Miami" Gets Comments," Multichannel News, September 10, 1984, p.6. A report on a request by the City of Miami and the National Federation of Local Cable Programmers that the FCC rescind is June 28 "Miami" ruling.

"FCC Gives Wisconsin Bell Go-Ahead to Wire Brookfield," CableVision, September 17, 1984, p.17. A discussion of the decision by the FCC to allow one phone system to construct and operate a cable system in a nonrural area.

"Franchise Fees and the Miami Decision," CTIC Reports, August 1984, pp.4-8. An excerpt from the FCC's decision on the City of Miami's request for a franchise fee waiver.

Gits, Victoria. "Live from Longmont," CableVision, September 17, 1984, pp.29-31. A look at a Colorado cable system's local origination news department that operates on a shoestring budget.

Gladstone, Brook. "Cable's Own Public Television Network," Channels, September/October 1984, pp.32-35. A profile of C-SPAN (Cable Satellite Public Affairs Network) a nonprofit, noncommercial cable service that televises House of Representatives hearings.

"Municipal Ownership of Cable Television," CTIC Reports, September 1984, pp.4-5. A discussion of the option of municipal ownership of a cable system.

Satellites

Programs

INTELSAT Announces Project SHARE

INTELSAT and the International Institute of Communications have launched a 16-month free satellite test and demonstration program that will allow scores of countries around the world to experiment with a wide range of telecommunications technologies in the fields of health and education.

INTELSAT is offering free use of spare capacity on its satellite network for Project SHARE, (Satellites for Health and Rural Education). Project SHARE will allow practical tests and demonstrations to be undertaken in the most rural and isolated parts of the world.

An International Advisory Council composed of experts in health and education communications from around the world will review the scores of

proposals expected. Possible proposals that would be considered include:

- TV broadcast for community reception of agricultural information in a rural area;
- national and international broadcast of instructional radio programs to small antennas;
- audioconferencing and/or slow-scan video for distance-teaching programs;
- personal computer-to-computer communications via small earth terminals for exchange of medical information or diagnoses.

Contact: Joe Pelton, INTELSAT, 202/488-2403.

California State University Turns On Its Uplink

California State University, Chico dedicated its 10-meter Scientific Atlanta uplink earth station on October 17, 1984, with a test transmission 22,300 miles into space and back. The university will use the dish this fall to transmit four computer science courses to Hewlett-Packard Company employees at their work sites in Santa Rosa, Palo Alto, Roseville, and Cupertino, California and Boise, Idaho. One hundred two Hewlett-Packard employees have enrolled in the graduate-level courses.

CSU's $170,000 satellite dish was funded by a U.S. Department of Commerce grant of $18,000 and the university's continuing education development reserve, which is supported by student fees from continuing education programs at 19 state campuses. The $500,000 uplink capability was funded through corporate donations, including equipment contributions from Scientific Atlanta.

The satellite will also be used for teleconferencing; CSU is a member of the National University Teleconferencing Network, and will one day hook directly into the university's computerized library catalog.

Gerald Stairs, vice president of academic affairs for CSU, said, "It's a whole new era. We're beginning to manage the knowledge explosion."

Contact: Bob Pentzer, CSU, 916/893-0507.

Articles

"Back to School Media," MIN, September 5, 1984, p.8. A update on College Network Inc., now offering four hours of programming to seven video centers at college campuses.

"Intelsat Postpones Decision on Competing Satellite Services," Broadcasting, September 24, 1984, pp.37-38. A report on decisions by Intelsat's board of governors to delay a number of controversial issues now facing them.

"A Mouse That's Roaring in Satellite TV," Business Week, September 10, 1984, p.55. A look at Luxembourg's commercial television, the first in Europe to be transmitted via satellite.

Teleconferencing

Articles

Brand, Rozanne. "Videoconferencing: Making a Go of It at Aetna," Video Manager, September 1984, p.24. An overview of videoconferencing at Aetna Life & Casuality: how it began and continues to grow.

"Government Awards $900M Contract for Telecommunications and Teleconferencing," TeleSpan, September 1984, p.9. An announcement of the Defense Department's plans to develop an integrated telecommunications network for voice, data, and full-motion videoconferencing.

"Harvard Teleconferences Medical Course," TeleSpan, September 15, 1984, p.18. A description of a teleconfer-

ence that will be broadcast by Harvard Medical School to 21 sites across the country.

"The Law Dedicated Network: ABA, ALI, and Comsat General Create Video Network," The Docket, Fall 1984, pp.1,10. A discussion of the plans by the American Bar Association and American Law Institute to build a national video network to serve the continuing education needs of lawyers.

Lewnes, Ann. "Videoconferencing Gains Momentum Despite Mixed Reviews from Managers," Video Manager, September 1984, pp.1,31. A report on a recent survey by Video Manager on teleconference use by U.S. businerses.

Rex, Scott. "Teleconferencing Problems and Potential Discussed Among Face-to-Face Conferees," Communications News, September 1984, p.46. An overview of the reports from the Wisconsin's Center for Interactive Programs' eighth annual conference on teleconferencing.

Videodisc

Articles

Gelman, Morrie. "Pioneer Laser Player Unites Audio, Video," Electronic Media, September 6, 1984, pp.2,26. An announcement that Pioneer Video will market a combination LaserVision videodisc/compact disc player.

Osborne, Charles. "Education and the Disc: An Investment Opportunity," The Videodisc Monitor, September 1984, p.8. A discussion of current use of videodiscs in school systems.

Williams, Dennis. "A Videodisc Project for Teaching Music," EI&TV, September 1984, pp.62,64. A description of a University of Delaware project that produces music course material on optical and laser videodisc.

Videotape

Articles

"The Video Player: Trying to Sell Simplicity," Business Week, September 1984, p.48. A report on new machines about to be marketed, that play videotape but cannot record on it.

Videotex /Teletext

Programs

San Diego State Sets Up Its Own Videotex System

San Diego State University will become a videotex system operator this fall. The university's Center for Communications will support several videotex services on a Radio Shack model 16B that features a 15-megabyte hard disk, a Unix-like operating system, and Tandy software package. The service includes:

- a text supplement to "Congress, We the People" developed by San Diego State University to be used by distant learners enrolled through SDSU's College of Extended Studies;
- an electronic newsletter and professional update for engineering professionals in the San Diego area, including a test group of electrical engineering masters students enrolled in courses that are beamed via ITFS to their work sites;
- and a database of videotex citations and annotations to facilitate research in the field of text services.

Contact: Chris Hassett, SDSU, 619/265-6933.

Articles

"Cox Cable Decides the Time for Videotex Has Not Yet Come," CableVision, September 10, 1984, p.16. An announcement of Cox Cable Communications scuttled plans for vidoetex service in Manhattan.

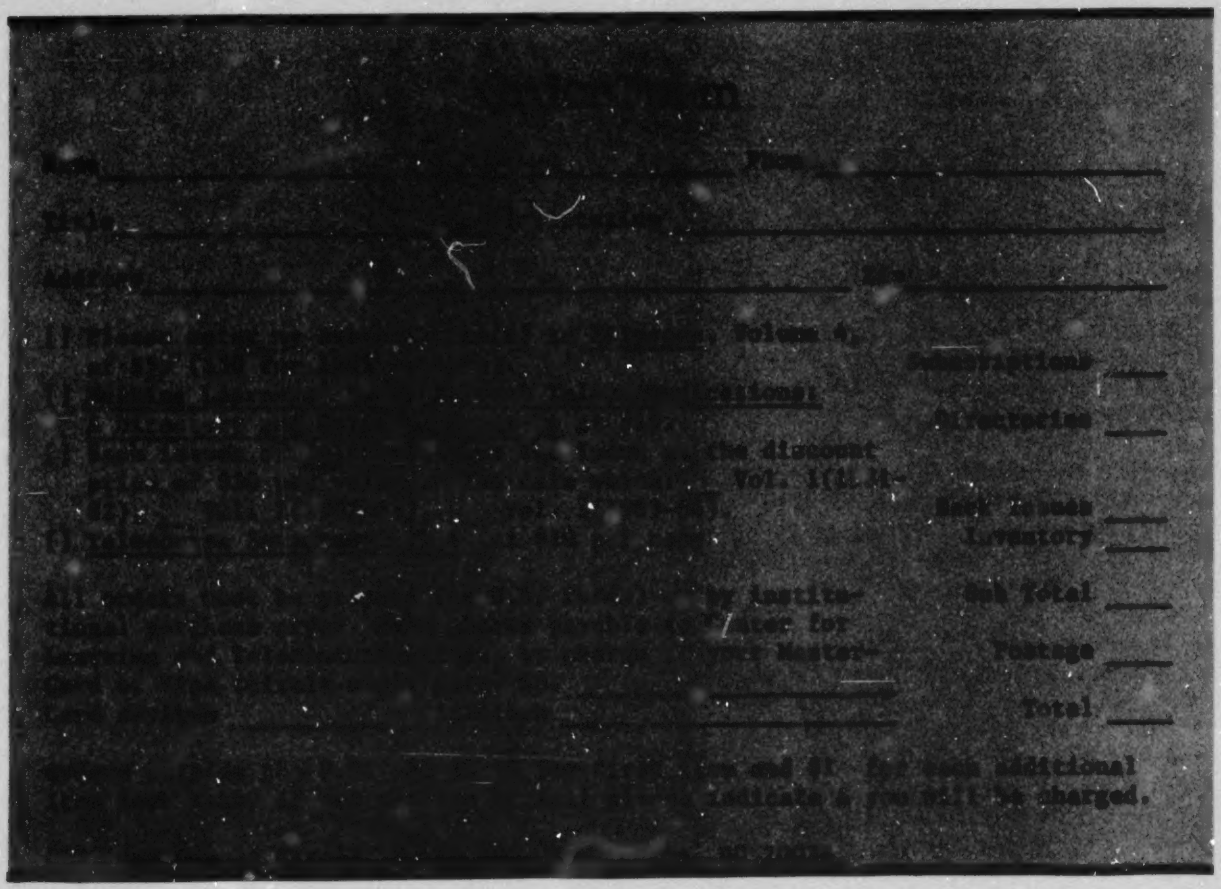
Enerson, Meryl and Tumey, Deborah. "An Experiment with Speech on an Electronic Text Service," Videodisc and Optical Disk, July-August 1984, pp.306-17. An explanation of an experiment conducted to study the effects of adding voice-over sound to an electronic text service.

Morse, Robert. "Videotex in Europe," Videodisc and Optical Disk, July-August 1984, pp.318-22. An overview of the effects of videotex technology in Europe.

Urrows, Henry and Urrows, Elizabeth. Early Viewtron," Videodisc and Optical Disk, July/August 1984, pp.269-305. A report on the South Florida commercial videotex service, explanation of the poor subscription base, and suggestions for boosting sales.

"Videotex Service Scheduled for Los Angeles Suburb," CableVision, September 10, 1984, pp.74-75. A look at Gateway, the nation's second commercial videotex service, scheduled to be launched in Los Angeles in September.

Ware, Jim. "Videotex and the Small Computer," Link-Up, September 1984, pp. 30-37. A comparison of microcomputer and videotex technology and how one can learn from the other.



COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

TUFTS, EDUCOM Receive Grant to Develop Microcomputer-Based HEDS

Tufts University and EDUCOM, a nonprofit consortium of 500 colleges and universities, have received a $50,000 grant from the Exxon Education Foundation to create a microcomputer-based version of the Higher Education Data Sharing Services (HEDS).

Seven universities and 25 liberal arts colleges use HEDS as a vehicle for sharing access to historical data on finance, enrollment, faculty, library, and other areas. Schools currently using the service must tap into a central database on a mainframe at Cornell University, a networked time-sharing arrangement. This grant will enable users to key in their data on a microcomputer and then dial into Cornell's computer only for transmission.

HEDS itself is content-free, with peer group members deciding data definitions, ratios, and report formats. The micro-mainframe version of HEDS will enhance graphic and analytic capabilities, reduce costs, and allow use of a rapidly growing base of microcomputer products. The resulting system will be available to a wider variety of colleges and universities.

Contact: Louise Dutney, EDUCOM, 609/734-1877.

Digital Equipment Corp. Offers $45 Million in Grants to Higher Education

Digital Equipment Corporation (DEC) has announced its plans to grant $45 million in equipment to colleges and universities over the next three years. The hardware manufacturer wishes to encourage the investigation and development of methods to increase instructional productivity in higher education.

Digital is now accepting proposals from any postsecondary institution committed to researching the integration of computer technology and instruction for the purpose of increasing the quality of education. DEC has placed special emphasis on projects working to solve a recognized instructional problem. Digital will also sponsor the development of self-teaching programs, innovative faculty training tools, and instructional software that uses the entire line of Digital products.

Contact: SIG Program Manager, DEC, 617/467-5911.

Articles

Battin, Patricia. "The Electronic Library--A Vision for the Future," EDUCOM Bulletin, Summer 1984, pp.12-17, 34. A commentary on the usefulness of library automation experiences to the disciplines of engineering and computer science.

Cercone, Nick and McCalla, Gordon. "Artificial Intelligence: Underlying Assumptions and Basic Objectives," Journal of the American Society for Information Science, September 1984, pp.280-90. An overview of AI: its methods and goals.

Christ, Frank. "Improving Knowledge of Computers on Your Campus Through User Groups," Journal of Developmental Education, Volume 8, Number 1, pp.22-23. An examination of one CSU computer user group and how it improved computer awareness among faculty, staff, and students.

Lee, Alfred. "Higher Education," InfoWorld, October 8, 1984, p.7. A commentary asking universities to catch up with schools in computer literacy.

Lewis, Edward. "Microcomputers Add High-Tech Flair to Liberal Arts Education," T.H.E. Journal, September 1984, pp.108-11. A profile of St. Mary's College, Md. and the recent automation of its campus.

McCredie, John. "BITNET's Changing Role in Higher Education," EDUCOM Bulletin, Summer 1984, pp.2-5. A look at BITNET and it expansion into an international computer network.

McGeever, Christine. "College Discount Macs," InfoWorld, September 17, 1984, p.15. A report on how California universities have been added to the Apple consortium.

Moss, Carol. "The Electronic University," Link-Up, September 1984, pp.22-23. An update on Telelearning System, an electronic education service that offers some 170 courses online.

Pusack, James and Otto, Sue. "Blueprint for a Comprehensive Foreign Language CAI Curriculum," AEDS Monitor, July/August 1984, pp.21-26. A description of the applications of computer-assisted instruction for the study of foreign languages.

Smith, Linda. "Artificial Intelligence: A Selected Bibliography," Journal of the American Society for Information Science, September 1984, pp.317-19. A listing of literature covering AI.

Southwell, Michael. "Computer Assistance for Teaching Writing: A Review of Existing Programs," Collegiate MicroComputer, August 1984, pp.193-206. A review of 34 computer programs for writing composition.

Turner, Judith Axler. "Assessing Academic Computer Software: 4 Basic Questions," Chronicle of Higher Education, September 1984, p.26. An exploration of factors that mark a good computer program.

Turner, Judith Axler. "Computerized Data-Base Servies for Research Bringing Era of 'Free' Library Service to End," Chronicle of Higher Education, September 19, 1984, pp.23,26. A discussion of the current costs of computer-based research.

Wedman, John and Heller, Marvin. "Concerns of Teachers About Educational Computing," AEDS Journal, Fall 1984, pp.31-39. A report on a study assessing the needs of inservice teachers seeking formal introduction to computing.

Interactive

Articles

Gibson, Gerald. "Interactive Video Meets the Oil Field: A Love Story," Training, September 1984, pp.47-52. A discussion of field-based interactive video training.

"Library Systems Announced on Disc," The Videodisc Monitor, September 1984, p.3. An announcement of two disc-based library systems: one allows indexing of images online, the other provides subject access to the complete Library of Congress shelf.

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MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

University of Hawaii Provides Guest Lecturers Via Slow-Scan Video

Sociology classes at the University of Hawaii's Manoa campus are reaching out to the mainland for guest lecturers via slow-scan video. David Swift, professor of sociology at the university, is able to carry on two-way interactive lecture sessions between speakers and his class, complete with audio and still video pictures, all for the price of a long distance phone call.

About three years ago, Colorado Video, Inc. loaned Swift three portable video units for use in his class and agreed to pay for the telephone transmission cost. Swift has been conducting teleconferences ever since. Each distant lecturer is mailed a video unit for slow-scan transmission. Over the past two years, students have heard from Louis Friedman, executive director of the Planetary Society, science fiction author Ben Bova and have "toured" the Smithsonian Air and Space Museum in Washington, D.C.

Swift plans to add color transmistions and experiment with digitized video that could be displayed over computer monitors. He also plans to use computer conferencing as a supplement to slow-scan teleconferencing in order to keep in touch with his distant speakers.

Contact: David Swift, University of Hawaii, 808/948-7837.

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"At the Crossroads: Cable and Telcos," CableVision, September 3, 1984, pp.41-69. A look at cable TV and Bell company alliances and analysis of their potential.

Besher, Alexander. "Computer Satellite Net Delayed," InfoWorld, September 24, 1984, p.15. An announcement of the delay of the launch of the new 24-hour Computer Satellite Network aimed at school cable channels.

Chin, Kathy. "Television Discovers Computers," InfoWorld, October 8, 1984, pp.41-42. An overview of television programming about computers.

Clement, Frank. "Using Technology to Train Senior Managers," Performance & Instruction Journal, September 1984, pp.15-19. A discussion of the proper use of different technologies for training.

"Hi-Tech Dreams Meet Real-World Challenges," Current, September 11, 1984, pp.S3,S11. An overview of how public TV stations and schools are developing integrated technologies for instruction.

"ICS Launches New In-Home Interactive Video Service Package," CableVision, September 3, 1984, p.71. A report on Transtext, a new cable service that combines telephone and cable technology for interactive services.

"Nabu Net Scrambles for Financing," CableVision, October 1, 1984, p.11. A discussion of a decision by Nabu's main financial source to cancel a $2 million infusion forcing the cable/computer network to refinance.

Simmacher, Betsy. "The BBS in the Sky," Link-Up, September 1984, pp.38-41. A description of Oscar 11, a satellite that provides computer communications via amateur radio.

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Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.

AAHE
American Association
for Higher Education
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TELESCAN

DECEMBER 1984

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 4

Focus On:

Teleconferencing

(The last in a three-part series on current trends in satellite teleconferencing.)

On May 1, 1984, representatives of the American Bar Association, the American Law Institute, and Comsat General joined forces to build a national video network to serve the continuing education needs of lawyers. When launched in spring 1985, the Law-Dedicated Satellite Network (LDN) will feature many of the most recent developments in satellite teleconferencing. The LDN will provide a dedicated network of Ku-Band technology transmitting one-way video and two-way audio programming to initially 40 sites throughout the U.S.

The teleconferencing industry hopes the LDN will be the turning point in the development of private telecommunications networks. Comsat General President Robert Kinzie commented on LDN's importance saying, "Recognition by major organizations such as the ABA and ALI of the value of private satellite networks for private communication needs is a giant step toward general public recognition of the value videoconferencing brings to business."

The LDN will consist of a permanent uplink located at Comsat General in Washington, D.C., 40 Ku-Band downlinks, and access to transportable uplinks and downlinks around the country. Comsat

(Continued on Page 4)

Legislative Update

Instructional Television Fixed Service

The FCC continues to accept applications for new ITFS licenses, providing they are not mutually exclusive -- the latter will be deferred until the adoption of procedures for selecting among conflicting proposals. The Commission is attempting to process applications submitted prior to September 14, 1984. These applications will be reviewed according to interim rules adopted by the FCC in August.

Under the interim rules, in order to be eligible for an ITFS license, applicants must represent a school, nonprofit educational agency, or governmental organization engaged in education. Licensees can now lease excess channel capacity for commercial use. Because of this new revenue-generating capability and rules allowing nonlocal applicants, many nonprofit organizations, including colleges and universities, have applied for multiple licenses. However, applicants must describe the nature and extent to which local educational and community organizations will be involved in the selection and production of programming.

The FCC has requested comments for final rules in six areas of ITFS operations:

- the nature and scope of permissible ITFS operations,
- eligibility requirements for ITFS applicants,
- control of ITFS facilities by licensees that lease excess channel capacity for commercial purposes,
- procedures for cutting off the application process,
- procedures for selection between mutually exclusive applicants, and
- interference protection standards.

October 17 was the cut-off date for comments. Replies to those comments were due November 16. (See Broadcasting, October 29, 1984, pp.42-44, for a summary of the comments.)

Final rules will probably be released in spring 1985; until then some 200 applications that are mutually exclusive will be deferred.

Contact: Stu Badell, FCC, 202/254-7664.

Cable Television

The Cable Telecommunications Act, passed by Congress on October 11, deregulates rates for cable TV pay services immediately, and will deregulate basic service in two years.

The Act gives local governments the authority to require cable operators to designate channel capacity for public, educational, or governmental use in their request for proposals and renewal proposals. Cable operators may, however, program unused channel capacity pursuant to rules established by the franchising authority.

The law also allows access payments (grants, staff operations budgets) over and above the 5% franchise fee in existing franchises (those established prior to enactment of the act). In future franchises, only capital costs (facilities and equipment) are excluded from the franchise fee. Operating budgets and grants to nonprofit access corporations will be considered "payment-in-kind" and deducted from the franchise fee.

President Reagan signed the act into law on October 30.

Contact: Sue Buske, National Federation of Local Cable Programmers, 202/544-7272.

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Marilyn Kressel, Director
Joan Gudgel, Communications Manager

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Radio

Programs

Public Radio Station Leases SCA for Blind Programming

For four years, KPFA, a Berkeley, Cal. noncommercial radio station, has leased a frequency of their sideband to Broadcast Services for the Blind. (The sideband frequencies are not picked up by standard radio band receivers. However, these frequencies can be received by special equipment tuned into that range of the spectrum.)

In the San Francisco area, the blind can listen to readings of the local newspapers, magazines, and books 18 hours-a-day, five days-a-week because of a special arrangement between BSB and KPFA. BSB produces the programming with the help of volunteer readers, then sends it via telephone lines to KPFA for broadcast over the sideband. BSB pays a small fee to cover broadcast costs.

As a result of a recent FCC ruling that now allows noncommercial stations to lease their SCA for commercial purposes, programs like BSB are in jeopardy around the country. Many public radio stations will be forced to drop such services for more lucrative commercial leases. But KPFA remains committed to serving the blind community. David Salinker KPFA general manager says, "In the event of future budget crunches, KPFA would find a way to continue the BSB programming."

Contact: David Salinker, KPFA, 415/848-6767.

Articles

Cowan, Cate. "International Newspaper Finds Its Voice," Current, October 9, 1984, p.4. A look at "MonitoRadio," the American Public Radio and Christian Science Monitor new weekend public affairs program.

"CPB Wants More FMs," Radio World, October 15, 1984, p.2. A report on CPB's request that the FCC reserve some of the new FM assignments for public radio services.

"FCC to Rule on Channel 6 Interference," CPB Reports, Otober 15, 1984, p.2. A discussion of Channel 6 interference standards and how they will affect noncommercial FM radio.

"$5.35 Million in Supplemental Funds to Go to Stations," NFCB Newsletter, October 1984, pp.1,4. An explanation of CPB's decision to allocate the entire radio share of FY 1984 supplemental appropriation funds directly to stations in the form of Community Service Grants.

Gelman, Morrie. "NPR Station Attacks Loan-Repayment Plan," Electronic Media, October 11, 1984, p.3. A report on KUSC-FM's outrage over NPR's decision to require its stations to assume full payment for last year's critical $6.9 million loan.

Ingram, Richard T. "We Must Find a Way for the Public to Control National Public Radio," Chronicle of Higher Education, October 3, 1984, p.72. A commentary on restructuring NPR to benefit the public.

"NPR Issues Satellite Distribution Study," Current, October 9, 1984, pp. 1,4. An announcement of the release of a study explaining the public radio satellite distribution system.

Telephone

Articles

"The Positive Side of Telephone Divestiture," The Green Sheet, October 15, 1984, p.39. A report on how some universities are benefiting from the deregulation of telephone technology.

"TRAC Files to Change 'Unfair' Phone Practices," ACCESS, August 1984, p.2. An explanation of the FCC filing by the Telecommunications Research and Action Center to challenge AT&T's 50-cent long distance information charge.

"University Selects Rolm for Campus Net," Communications News, October 1984, p.12. A description of University of Vermont's new communications system for voice and data.

New

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Teleconferencing

(Continued from Page 1)

General will build the network and provide free trouble-shooting and maintenance. LDN programming will have primary access to a Comsat dedicated satellite transponder.

The ABA and ALI hope to establish a Washington office to govern and manage the network. At present the Joint Committee for a Law-Dedicated Network continues to act on behalf of the network. Recently the ALI-ABA committee selected affiliates in 40 states to receive LDN programming. Affiliates are state continuing law education providers that will house receive dishes fixed to the network transmissions. Affiliates are required to participate in at least 75% of all LDN programming for one year and must provide meeting rooms, TV monitors, and phone lines for LDN events.

The LDN will offer 12 continuing education events in 1985; six events sponsored by the ABA, six by the ALI. Programming will be live, four-hour transmissions with toll-free phone lines for viewer feedback and questions.

Contact: William Hamblin, ABA, 800/621-8986.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Public Broadcasting Airs Two Series on Computers

Two series designed to give educators guidance on buying and using microcomputers and instructional software aired on public television this fall. "Educational Computing" and "Educational Computing Software Screens" focused on the use of computers for instructional purposes at home and in the classroom.

"Educational Computing" presented 37 weekly half-hour reports on such subjects as software selection, networking and licensing, microcomputers and the handicapped learner, and other problems facing consumers.

"Educational Computing Software Screens", a new in-school television series, debuted this fall with 32 15-minute programs that took an in-depth look at some of the best instructional software on the market. Each program focused on a specific curriculum area, grade level, or category of software.

Both series were produced by Kentucky Educational Television in association with the Educational Products Information Exchange Institute.

Contact: Mary Campbell, KET, 606/233-3000.

Articles

Colford, Steven. "Reagan Veto Paves Way for PBS Ad Push," Advertising Age, October 25, 1984, p.13. A report on the second CPB appropriations veto and President Reagan's suggestion that public broadcasting explore "alternative revenue sources."

"Conversation with Henry Becton," Videography, October 1984, pp.48-72. An interview with the president of WGBH-TV concerning the PBS station's great programming: "Masterpiece Theatre," "Nova," various Julia Child series, and "Mystery."

"Dissention over 'NewsHour' Format," Broadcasting, October 15, 1984, p.71. A report on "MacNeil/Lehrer NewsHour" and its chances for survival as an hour-long program.

Hooper, Carter. "More Benefit from Advanced Education Via ITFS System," Communications News, October 1984, p. 101. A profile of the Yuba College ITFS learning center, which microwaves educational programming to Beal Air Force Base.

"ITFS Instructions," Broadcasting, October 29, 1984, pp.42-44. Excerpts from the many responses the FCC received from educational institutions concerning the regulation of ITFS.

Leddy, Craig. "FCC Makes a Concession to Speed up LPTV Process," Electronic Media, October 25, 1984, p.4. An explanation of the FCC's new procedure for speeding up LPTV processing via filing windows.

"NITA Releases Interim Rules for PTFP Funding," Current, October 9, 1984, pp. 1,4. A report on the new PTFP interim rules that have revised eligibility to include projects requesting funds for the expansion of existing service areas and applications that propose to establish new facilities in areas currently receiving public TV.

Cable Television

Articles

"Cable's Lost Promise," Newsweek, October 15, 1984, pp.103-5. A report on the continued slow rise in cable TV pay subscribers.

"Congress Grants Cities Immunity from Damages in Antitrust Cases," Multichannel News, October 22, 1984, p.29. A description of a bill passed by Congress to protect local governments from antitrust law suits in cable franchising proceedings.

Kahin, Brian. "Rethinking Public Acess," Community Television Review, Summer/Fall 1984, pp.40-41. A commentary on the concept of community access that looks at the proposal by Rep. Tim Wirth (D-Colo.) for a national plan for funding noncommercial access programming.

"New Orleans Mayor Signs Access Pact," Multichannel News, October 8, 1984, p. 29. An announcement of the signing of a contract to establish a nonprofit group to supervise access programming.

"PEN Signs 1st Affil," Multichannel News, October 22, 1984, p.14. An announcement of the recent agreement by Professional Education Network to offer its pay service to eight California cable systems.

Satellites

Programs

Creighton U. Pioneers Satellite Use for Foreign Language Instruction

Creighton University, under the guidance of Fr. Lee Lubbers, is receiving foreign TV programming via satellites for instructional use in foreign language courses. Lubbers has constructed a satellite receive station that tracks the Soviet Molniya satellite for Soviet Block TV programming. The dishes are assisted by an Apple computer programmed to enhance transmissions weakened by Molniya's haphazard wander around the globe.

These transmissions are sent to a private master antenna cable system that connects all study halls, libraries, dormitories, and classrooms at Creighton. Programs like "Good Morning Siberia" assist students in and outside the classroom to master the difficult Russian language.

Lubbers is so impressed with the value of satellite programming for foreign language instruction that he has established an organization to promote its use. SCOLA, Satellite Communications for Learning Association, was formed to locate and intercept five foreign language transmissions not regularly viewable in North America. SCOLA hopes to provide this programming on a 24-hour service retransmitted to a North American satellite for easy access in the U.S.

Contact: Fr. Lee Lubbers, Creighton University, 402/280-2700.

Articles

"And Another Guide Goes to TV," MIN, October 17, 1984, p.2. A report on Campus Network's new series "Business Week's Guide to Careers" which deals with finding jobs after graduation.

"FCC Appeal of DBS Decision Falls Short," Broadcasting, October 8, 1984, p.50. A description of the U.S. Court of Appeals decision to authorize DBS service but vacate the section on making DBS a common carrier service, and thus not bound by broadcast regulations.

"FCC Decision to Postpone MMDS Item Angers MDS Operators," Broadcasting, October 29, 1984, p.32. A report on the stalled FCC process for determin-

ing selection among some 16,000 multichannel multipoint distribution service applications. (The new service was created from the eight channels removed from the ITFS spectrum last May).

"FCC Green Lights 3 DBS Applicants," Cablevision, October 22, 1984, p.20. A discussion of six companies that sought permission to operate DBS systems, only three of which were granted the go-ahead.

Montgomery, Hale. "New Challenges in the International Arena," Satellite Communications, October 1984, pp.23-27. A look at the emerging worldwide competition and changing U.S. policy concerning international satellite communications.

Stern, Paul. "FCC Proposes to Deregulate International Satellites," ACCESS, September 1984, pp.5,8. A commentary on INTELSAT's views on deregulation of international satellites.

Whelan, C. Richard. "Communication Satellites Move to Higher Frequencies," High Technology, November 1984, pp.48-53. An explanation of the new Ka-Band technology that will provide better service than either C-Band or Ku-Band.

Teleconferencing

Programs

NUTN Adds to Program Offerings

The National University Teleconferencing Network (NUTN) has signed contracts with two continuing education course providers for their 1984-85 program schedule. The approximately 110 colleges and universities that make up NUTN are receiving live satellite engineering courses through the Institute of Electrical and Electronics Engineers and telecourses on medical topics through Symposiums International.

According to NUTN Executive Director J.O. Grantham, these agreements provide network members "with badly needed high quality technical programs, and provides IEEE and Symposium with a large, established university network for their programs."

Video teleconferences scheduled for fall includes: "Suicide," "Anorexia," and "Sexual Abuse of Children" by Symposium; and "VLSI: Its Impact on Your Career," and Survey of Integrated Manufacturing Systems" by IEEE.

Contact: Marie Oberle, NUTN, 405/624-5191.

Articles

Black, Jim. "Videoconferencing: Sound and the Satellite," Video Systems, September 1984, pp.76-77. A discussion of the importance of the audio quality in satellite videoconferencing.

"Start-Up of 1st Financial Broadcasting Network," TeleSpan, October 15, 1984, p.13. A description of a teleconferencing network established to deliver education and information programming via satellite.

Videodisc

Programs

Utah State Develops Bilingual Videodisc

Utah State University, in conjunction with Systems Impact of Logan, Utah, has produced a laser reflective videodisc program for testing mathematical ability. The unique feature of the program is its bilingual format. The "Math Assessment Program" utilizes the audio and video features of the videodisc to present test items in either Spanish or English. It is designed to test students whose primary language is Spanish or English-speaking students who cannot complete a conventional paper-and-pencil test.

The program is made up of 355 objectives arranged hierachically. The objectives cover: numeration, whole numbers, fractions, decimals, measure-

ment, geometry, and graphing/prediction.

The "Math Assessment Program" is available in Level II or Level III modes, that is, a disc with digital dumps or a fully interactive package.

Contact: Systems Impact, 801/753-7973.

Articles

"The Industry Comes of Age," The Videodisc Monitor, October 1984, pp.12-13. An overview of outcome of the fifth Nebraska Videodisc Symposium, held August 27-30, 1984.

"Videodiscs Can Improve Instructional Efficiency," Instructional Innovator, September/October 1984, pp.26-28. A discussion of the videodisc training experiments conducted by the military.

Wheaton, James. "We Hear What We See: The Marriage of Audio and Video," Videodisc and Optical Disk, September/October 1984, pp.349-55. A discussion of techniques for producing audio tracks for existing video in the early phase of optical videodisc design.

Videotape

Articles

"British Study Tracks VCR Use," Broadcasting, October 15, 1984, pp.76-77. A look at the findings of a BBC study designed to measure the recording and playback of TV programs in United Kingdom homes.

Crook, Robert. "Why to Go Out-of-House for Production," E&ITV. October 1984, pp.50,55. A report on the Center for Telecommunications of the Dallas County Community College District and its telecourse production procedure sans studio or post-production facilities.

Sobrevinas, Renato and Pasillas, Lucy. "Making Medical Video in Mexico," E&ITV, October 1984, pp.56,60-71. A description of the video production at the Universidad Autonoma de Aguascalinetes, Mexico.

Videotex /Teletext

Programs

WGBH Producing Basic Math Course on Videotex

Yearly, the University of Massachuetts offers over 600 Boston Harbor students a course designed to help them master basic math skills. The Fundamental Math Skills course developed by Linda Falstein, director of Math Skills at the campus, has been very successful in preparing students for basic algebra classes.

This fall, Falstein is assisting WGBH to design a similiar course on videotex. The production phase of the project is now underway and during the next several months WGBH's Electronic Text Services division will be creating page designs. Five topic areas will be covered: signed numbers, polynominals, linear equations, applications of linear equations, and graphing of lines.

The first phase of the product, a set of chapters introducing algebra, will be finished in February 1985. WGBH plans to test the product locally at the University of Massachusetts Boston campus. Further distribution is being discussed with Viewtron, GATEWAY, and Keytron.

Contact: Rob Lippincott, WGBH, 617/492-2777.

Articles

Elson, Ila. "Design Trends in Videotex Systems," Videodisc and Optical Disk, September/October 1984, pp.357-64. A explanation of the user interface design trends for videotex systems, plus a guide to major sources of information about videotex technology.

Pryor, Jeff. "Videotex Growth Slow, but Industry Hopeful," Electronic Media, October 18, 1984, p.10. An update on the status of the videotex industry.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

American Open University to Use Computer Teleconferencing

The American Open University of New York Institute of Technology (AOU/NYIT) will use a unique system of "electronic seminars" to enable distant learners to work toward an undergraduate college degree. The system, called PARTICIPATE, allows students with access to personal computers the option of learning through an innovative, student-centered, interactive, computer teleconferencing system.

AOU/NYIT began accepting nationwide enrollments in October 1984. Independent study courses are now available for all courses needed to fulfill requirements for three Bachelor of Science degrees: Business Adminstration, Behavioral Sciences, and General Studies.

"For too many years, the circumstantial barriers of time, geography, and educational costs have prevented thousands of American adults from pursuing a college degree," said Donald McNeil, provost of AOU/NYIT. "In designing this program, we have worked hard to eliminate or reduce these roadblocks. Ease of access for students who cannot come to a campus is the central mission of our program."

The American Open University is an outgrowth of the University of Mid-America, a consortium of 11 Midwestern universities. The American Open University became the distance learning arm of NYIT in 1983.

Contact: AOU/NYIT, 800/222-6948.

Articles

Bork, Alfred. "Education and Computers: The Situation Today and Some Possible Futures," T.H.E. Journal, October 1984, pp.92-97. A look at current trends in equipment, instructional materials, and classroom set-ups for computers in education.

Bork, Alfred. "Producing Computer-Based Learning Material at the Educational Technology Center," Journal of Computer-Based Instruction, Summer 1984, pp.78-81. A discussion of the critical factors and stages in the production of computer-based learning materials.

Chin, Kathy. "IBM Funds Teacher Training," InfoWorld, October 22, 1984, p.15. A report on IBM's backing of the National Computer Training Institute to train some 32,000 grade school, high school, and college teachers in computer use.

"Computers Sought for Literacy Project," Link-Up, October 1984, p.13. An announcement of a project by the Society for Information Management to promote computer literacy among Native American students living at reservations throughout the country.

Dewey, Patrick. "Microcomputers and Telecommunications: A Checklist of Books and Journals," American Libraries, A listing of publications devoted to microcomputer telecommunications.

"'Fat Mac' Enters Consortium," InfoWorld, November 5, 1984, p.25. A report on the acceptance of the Fat Mac by Apple University Consortium members.

Gwynne, Peter. "Computers Are Sprouting in the Groves of Academe," Technology Review, October 1984, pp.19-26. An

overview of major universities' installation of computers for instruction.

Heck, William and Grimm, Patrice. "EASE: Easy Authoring System for Educators," Journal of Computer-Based Instruction, Summer 1984, pp.72-73. A description of an authoring and delivery system that enables trainers to create, update, and manage computer-based instruction without data processing experience.

Hunter, C. Bruce and Wold, Allen. "Basic Guide to the Compleat Educational Computer," Media & Methods, November 1984, pp. 13-23. An overview of hardware and software information necessary in selecting computers for educational use.

Jackson, William and Clements, David. "Computer Awareness at a Research University," Journal of Educational Technology Systems, Vol. 13, Issue 1, pp.47-56. A description of the results of a survey measuring levels of computer awareness and use among the faculty of University of Georgia.

Kontos, George. "Instructional Computing: In Search of Better Methods for the Production of CAI Lessons," Journal of Educational Technology Systems, Vol. 13, Issue 1, pp.3-14. A look at the efforts a team of experienced educators and skilled computer professionals to produce "better" CAI lessons.

Lu, Cary. "Integrated Software Bids for Center Stage," High Technology, November 1984, pp.32-44. A discussion of complex new software programs that pose difficult design questions to meet their goal of integration.

Mace, Scott. "Computer Test Hits Snags," InfoWorld, November 5, 1984, pp.31-36. A report on the College Board's Advanced Placement Test in Computer Science which is currently accepted by some major universities but not by others.

"Trainers and Computers: After the Courtship," Training, October 1984, pp.48-58. A description of the results of a survey of 1,800 trainers and their use of computers.

Vacc, Nancy. "Computers in Language Arts: Potential Benefits and Problems," Journal of Educational Technology Systems, Vol. 13, Issue 1, pp.15-22. A discussion of how computers can be used in language arts instruction: potential benefits and problems.

Books

Academic Computing as Technological Innovation. Andrew Masland. Eric Document Reproduction Service, P.O. Box 190, Arlington, VA 22210. 1984. 21pp. $3.64.

A paper reviewing the literature on the process of adopting computers for instruction. Includes a 22-item bibliography.

Interactive

Articles

Clark, D. Joseph. "How Do Interactive Videodiscs Rate Against Other Media?" Instructional Innovator, September/October 1984, pp.12-16. A comparison of visual formats and their potential for solving instructional problems.

Hannafin, Michael. "Options for Authoring Instructional Interactive Video," Journal of Computer-Based Instruction, Summer 1984, pp.98-100. At look at hardware and software alternatives for authoring interactive video.

"Interactive Videodisc in Education and Training," The Videodisc Montior, October 1984, pp.10-11. An overview of the Society for Applied Learning Technology's sixth annual conference.

Wiegand, Ingrid. "Writing for Interactive: Small Steps Go Farther," Video Manager, October 1984, p.13. A discussion of the different writing techniques for interactive video scripts.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Temple U. Launches Integrated Telecommunications Network

Temple University expects to save $9 million in communications costs over the next 10 years with an integrated telecommunications network for voice, data, and video. By January 1986, the university will have electronically linked 104 buildings on five campuses located in Philadelphia.

Bell Atlanticom Systems, a subsidiary of Bell Atlantic, has been chosen to coordinate the first phase of the telecommunications construction. Under a $12 million contract, it is installing two InteCom Integrated Business Exchange systems, as well as microwave links and fiber optic cable. This new system will serve as an electronic road map for future computer and information systems that will complete the integrated network.

Once complete the final network will:

- provide facilities for video conferencing, data processing, electronic mail, and ultra-efficient telephone lines;
- permit faculty members access to research information from outside computer databases;
- enable all classrooms to send and receive voice, data, and video transmissions; and
- allow students to access data from their dormatories.

Contact: Robert Scanlon, Temple University, 215/787-7000.

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McVoy, D. Stevens. "Multi-channel MDS and Cable," Cable Communications Magazine, September 1984, p.48. A look at the new services of MMDS and ITFS and how they might compete with cable TV.

Monteau, Patricia. "Teleconferencing: What It Is, How It Works, and What You Need," Instructional Innovator, September/October 1984, pp.20-22. An overview of the different technologies used for teleconferencing.

Morano, Richard. "AV Use Enhances Student Perception of Teaching Effectiveness," Performance & Instruction Journal, October 1984, pp.23-24. A report on the findings of a study designed to learn about students' regard for instruction with and without audiovisual materials.

"Play It Again, This Time In Color," Time, October 8, 1984, p.83. A description of a new computerized process for coloring old black and white videotapes and films.

"Study Predicts MMDS to Hurt Urban Cable Ops," Multichannel News, October 29, 1984, p.32. Excerpts from the report, "The Emerging Multichannel MDS Industry," which projects that some six million American homes will receive video entertainment via MMDS by the end of the decade.

"Tribune Uses Vast Resources to Create New Info Services," CableVision, October 22, 1984, p.44. A report on two field tests by Tribune Company to convert print material from the Tribune's syndicated journals into computerized information systems.

Weiss, Helen. "International Telecommunications and Information Policy," Community Television Review, Summer/Fall 1984, p.25. A look at the book, International Telecommunications and Information Policy, which reports on the long-range goals of the U.S. and other countries in this field.

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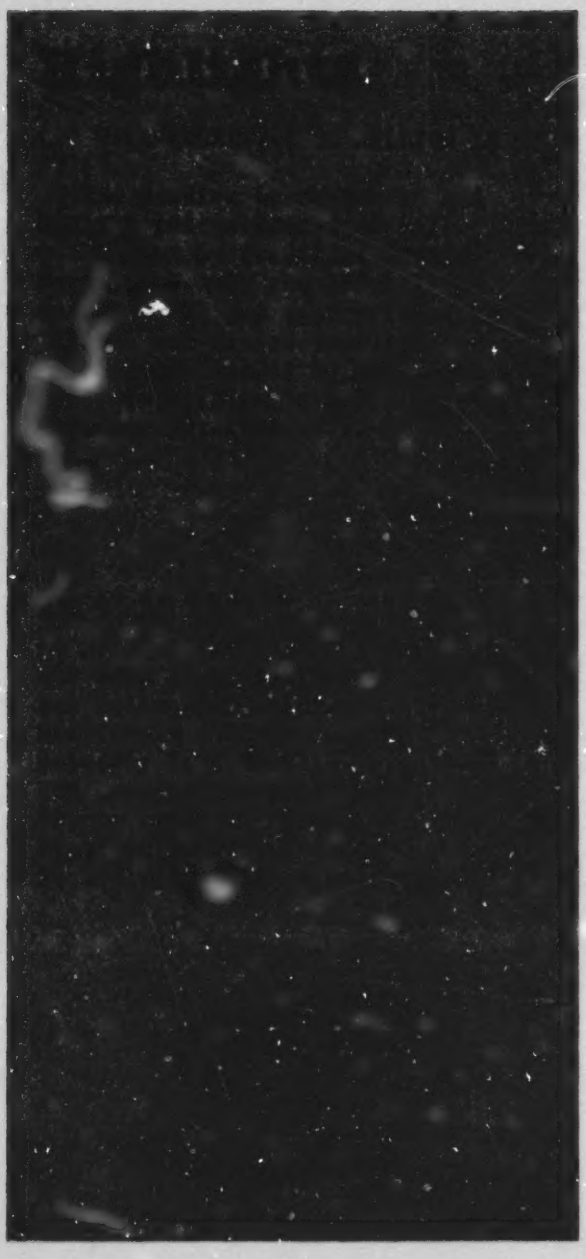

Focus On:

Education Associations

Over the past five years, higher education associations have begun to recognize the increasing importance of telecommunications to their constituents. Organizations like the American Association of Community and Junior Colleges, the National Association of State Universities and Land-Grant Colleges, and the American Association of State Colleges and Universities have formed task forces and committees to follow telecommunications legislation, incorporate telecommunications subjects into their national conferences, and issue reports and publications on telecommunications and higher education.

Telescan has been following these projects for the past three years. (For further information see Telescan, Volume 1 Issue 1 and Volume 2 Issue 7). Below is an overview of the associations' telecommunications activites in 1984.

The Instructional Telecommunications Consortium, a project of the American Association of Community and Junior Colleges, met in the fall of 1984 to expand the organization's goals and broaden its membership base. ITC membership now stands at 37, and includes three Canadian institutions.

The set of goals adopted reflects the group's interest in nonbroadcast as well as broadcast media, and places

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strong emphasis on improving media utilization. Also as a result of this meeting, institutions other than community colleges are now eligible to join the consortium.

Over the past 12 months, each of ITC's five regions has sponsored a professional development workshop for faculty and administrators who want to learn more about telecommunications technologies. The ITC and its Central Region cosponsored a national seminar, November 7-9, entitled "Telecourse Conference '84."

The final report of the 1984 Telecourse Student Survey, conducted by the ITC with a grant from CPB, will be available shortly from the AACJC publications office. And a volume of case studies illustrating exemplary uses of nonbroadcast media in instruction is now in preparation.

Contact: James Zigerell, ITC/AACJC, 202/293-7050.

Committee on Communications Technology, an arm of the American Association of State Colleges and Universities, met twice in 1984. Its efforts concentrated on developing a survey on the availability of various types of telecommunications on AASCU campuses and developing a follow-up survey to determine the availability and utilization of computers at member institutions. Representatives of the committee also met with telecommunications business and industry executives to explore the possibility of delivering education and training services to businesses via telecommunications.

In addition, the committee monitored federal activity in the communications technology area, including the AT&T divestiture, cable television legislation, and regulations regarding ITFS.

Contact: Rick Hurley, AASCU, 202/293-7070.

Office of Special Programs, a division of the National Association of State Universities and Land-Grant Colleges,

(Continued on page 4)

Legislative Update

Radio

On October 26, the FCC voted to resolve the TV-6/FM interference controversy that has been going on for 12 years. (Some television stations that broadcast over Channel 6, 82-88 MHz, have experienced interference from educational FM channels operating in the 88-92 MHz range. Interference has occured as a result of the adjacent frequencies, and the fact that television receivers are not precision instruments and pick up the lower FM frequencies.)

The FCC order, effective January 1, 1985, now places the responsibility of interference solely on the shoulders of the educational FM services. While current FM stations are not bound by the order, all applicants for new or modified FM service who plan to operate in the 88-92 MHz band must comply.

FM applicants that fall under the rule will be restricted in their power levels and are responsible for calculating their permitted power, predicting interference patterns, testing for actual interference once their transmitters are built, and addressing any interference that occurs.

This ruling means additional manpower and costs to the fledgling educational radio operators, and the possiblity of never meeting the new standards to go on air.

CPB asked the FCC to look into the Channel 6 interference matter in 1972. In their report to the FCC, CPB requested a mandate for selectivity standards for television receiver manufacture. The FCC declined to pursue that remedy at this time.

Contact: Pat Watkins, National Federation of Community Broadcasters, 202/797-8911.

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

University of Central Florida Connects Three Campuses Via Teleconferencing

Since spring 1984, the University of Central Flordia has been offering undergraduate and graduate vocational education courses via audio teleconferencing. The Vocational Education Department uses the university's in-house Rolm telephone system to connect three campuses in South Orlando, Daytona Beach, and Cocoa.

By using their own telephone system, the department avoids costly long-distance charges. Basic amplifier speakerphones are used at each of the three sites. Total cost for five speakerphones, extensions, and jacks came to $350.

Nine courses have been offered over the audio conferencing system since its inception. The university is now able to offer more courses on additional nights as a result of connecting three campuses. Off-campus students can also be connected into the network. Currently a homebound student is taking an undergraduate course via teleconferencing so she can complete her teaching certificate.

Contact: Larry Hudson, Vocational Education, University of Central Florida, 305/275-2013.

Articles

"New Do-It-Yourself Teleconferencing Service," Telephone Angles, November 1984, p.2. An explanation of the new AT&T teleconferencing service that can connect up to 59 locations without assistance of an operator.

"Special Education Net Awarded Teletraining Grant," Telcoms, November 1984, pp.7-8. A description of California's Special Education Resource Network that will provide audio, and eventually video, teletraining.

Cable Radio

Articles

Jensen, Elizabeth. "Research Offers Insights for Cable Radio Industry," Electronic Media, November 8, 1984, p.12. A report on recent research findings that look into the pay-cable radio industry.

Radio

Articles

"KSBR-FM Drops NPR Status Plans to Double On-Air Time," Current, November 20, 1984, p.2. A report on the Saddleback Community College radio station that dropped its NPR membership in order to fulfill a commitment to become self-supporting.

Leddy, Craig. "NPR Board Re-Elects Its President," Electronic Media, November 1, 1984, p.13. An announcement of the re-election of Doug Bennet as chief executive officer of NPR.

Meyer, Thomas. "Innovative Campus Radio Stations Shun 'Top-40' Music," Chronicle of Higher Education, November 7, 1984, pp. 1,15. A look at the programming currently aired on campus radio stations.

"The Sound of Quality," Time, November 5, 1984, p.85. A report on the American Public Radio network and its distinction from NPR.

Telephone

Articles

"Did it Make Sense to Break Up AT&T?" Business Week, December 3, 1984, pp. 86-89. A special report on the divestiture and how AT&T, the new long-distance services, and the Bell Companies are fairing.

Moss, Carol. "AT&T vs. the Rest: Which Should You Choose?" Link-Up, November 1984, pp.34-35. A discussion of the options between the many long-distance providers.

Senkowski, Michael. "What's Regulated Today?" Telephone Angles, November 1984, p.8. An update on the regulatory status of different phone services after the divestiture.

Education Associations

(Continued from page 2)
has been involved in analyzing and disseminating information on telecommunications legislation and regulation. OSP helped organize support for the public broadcasting reauthorization bills, submitted comments to the FCC on proposed private-line charges resulting from the AT&T divestiture, and was able to obtain a 30-day extension for FCC comments on final ITFS rulemaking so that colleges most affected by the rule changes could file comments.

NASULGC's Higher Education and Technology Committee is currently working on a series of workshops on supercomputers that they hope to offer in 1985.

Contact: Susan Fratkin, NASULGC, 202/293-7120.

Joint Efforts

These three associations, together with the American Council on Education, the American Association for Higher Education, the Association of American Colleges, the National Institute of Independent Colleges and Universities, the National University Continuing Education Association, and the Society for College and University Planning, cosponsored a national conference on critical issues in technology planning and management. The two-day event, "Integrating Communications Technologies on College and University Campuses," was held on the Georgia State University campus October 9 and 10.

The joint effort, funded by the Annenberg/CPB Project, AT&T, Digital Equipment Corp., Xerox Corp., and Systems and Computer Technology Corp., focused on planning strategies and management techniques for integrating voice, video, and data technologies for instruction, administration, and research.

Case studies of plans for the University of Pittsburgh, Brigham Young University, the California State Colleges and Universities, Maricopa County Community College, and Kirkwood Community College were presented. Audiotapes of the presentations will be available from the American Council on Education. Contact: Daryl Ferguson, ACE, 202/833-4700.

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Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Articles

Cowan, Cate. "Interview: CPB Chairman Landau, for the Record," Current, November 6, 1984, pp.3-4. An interview with the newly elected CPB Chairman Sonia Landau.

"FCC Finally Makes Up Its Mind on MMDS," Broadcasting, November 26, 1984, pp.37-38. An update of the FCC's actions, including its decision to award multichannel multipoint distribution systems by lottery.

Gelman, Morrie. "PBS Could Get $1 Million from Coupon/Show Tie-In," Electronic Media, November 1, 1984, p.2. A description of WNET's efforts to raise money for a sports series through a special newspaper coupon campaign.

Hickey, Neil. "Turn on Your TV--and Aim for a Diploma," TV Guide, November 17, 1984, pp.36-38. An overview of PBS's Adult Learning Service and the courses it offers.

"Montana Gets Public Television Finally," Current, November 6, 1984, p.2. An announcement of the initial broadcast of Montana's first public television station, located on the campus of Montana State University.

"'NewsHour's' Fate Highlights Program Fair," Broadcasting, November 5, 1984, pp.62-63. A look at PBS president's comments concerning the continued production of "MacNeil/Lehrer NewsHour."

"A Station of Our Own," The Independent, November 1984, pp.6-7. A report on five independent radio and television producers who have been awarded a construction permit to build a full-power public television station in Philadelphia.

Cable Television

Articles

"Cable Telly: The Picture Dims for U.S. Operators," Business Week, November 19, 1984, pp.58-59. An update on the progress, or lack of it, of cable TV construction in England.

DiMatteo, Robert. "Independents' Day at the Learning Channel," CableVision, December 3, 1984, p.26. A review of The Learning Channel's 12-part series, "The Independents: Dis/Patches," selections of outstanding independent film and video work.

Gelman, Morrie. "Pay Cable Must Look in Its Own Backyard," Electronic Media, November 22, 1984, pp.12,26. An analysis that predicts the future of pay cable lies with original programming.

"NYT Cable Plans for Two-Way PPV," CableVision, November 26, 1984, pp.64-65. A report on a New Jersey cable system's plan to rebuild into a two-way interactive service offering pay-per-view.

"OPENnet Lets Sun Shine in on Government with Much Success," CableVision, November 26, 1984, p.38. A description of the Open Public Events Network, a satellite-fed service to North Carolina cable systems produced by the

North Carolina Agency for Public Telecommunications.

"The Surprising Success Stories in Cable Television," Business Week, November 12, 1984, pp.81-88. A report on several cable operators enjoying large profits as a result of cutting back to "the basics"--getting rid of data services and concentrating on entertainment.

Satellites

Programs

Students Learn German Via Satellite

On November 14, the National Committee to Internationalize Education through Satellites (NCIES), in cooperation with Dickinson College in Carlisle, Pa., conducted a pilot project using international telecommunications to teach foreign language and culture. Third-semester German language students at Dickinson College were linked to staff members of the National Maritime Museum in Bremerhaven, West Germany, via Satcom I-R.

During the hour-long transmission, students interviewed museum officials about Bremerhaven's role in the 19th century German emigration to central Pennsylvania. All conversations were conducted in German.

The transmission was one-way video to Dickinson College and two-way audio via transatlantic telephone circuits. Public TV station WITF in Harrisburg, Pa., simulcast the broadcast to viewers in central Pennsylvania.

NCIES is a nonprofit corporation located at the University of Pennsylvania that works to place language students in foreign countries via two-way television for improved learning.

Contact: Bill Johnston, NCIES, 215/898-3178.

Articles

Campbell-Smith, Patrick and Hall, Victoria. "Project Universe Shows Feasibility of Linking LANS Through Satellites," Communications News, November 1984, p.36. A description of Project Universe, an experiment that links local area networks by satellite.

"Columbia U. Gets Soviet Broadcasts," E&ITV, November 1984, p.6,11. A report on Columbia University's reception of domestic Soviet broadcasts via four Molniya satellites.

Smith, Ilene. "Too Much Too Soon?" Satellite Communications, November 1984, pp.32-36. A discussion of the effects that a transponder glut will have on the satellite industry.

Vestal, Chris. "INTELSAT Guidelines Dispute," Telecommunications, October 1984, pp.33-36. A look at the controversial guidelines proposed by the staff at INTELSAT that respond to a surge in requests for use of domestic satellites for transborder services.

Teleconferencing

Programs

Five Institutions Receive Grants of Slow-scan Video Equipment

Colorado Video Inc., a supplier of slow-scan video equipment, has granted videoconferencing units to five educational institutions. They are: the Kansas Regents Network, Manhattan; California State Polytechnic University, Pomona; Creighton University, Omaha, Neb.; Institute of Electronic and Electrical Engineers, Piscataway, N.J.; and the University of Toronto's elemedicine Center.

As a result of these awards, the institutions will be able to participate in the North American Ad Hoc Educational Slow-scan Video Network, a group of 22 colleges, universities, and nonprofit organizations who currently use slow-scan video for distance learning. The network was established

by Colorado Video to encourage exchange of expertise among their clients and expand the use of slow-scan technology beyond the campus to national and international use.

Colorado Video is planning another series of awards in January 1985, in addition to several network conferences later in 1985. Contact: David McIntosh, Colorado Video, 303/444-3972.

Articles

"Army Video Teletraining Network Begins Operation," Telcoms, November 1984, p.12. A description of a one-way video, two-way audio teleconferencing network that connects the U.S. Army Quartermaster School and 11 Army sites around the country.

"Case Study: 'Pension Law Issues,'" TeleSpan, November 15, 1984, pp.16-17. A description of a teleconference held by the Lawyers' Coordinating Committee of the AFL-CIO to inform members about the effects of recent legislation and court decisions on pension law.

"GM and Ford Sign with PSN," Video Manager, November 1984, pp.1,4. An announcement of plans by General Motors and Ford Motor Company to build private videoconferencing networks in conjunction with Private Satellite Network, Inc.

"Hospital Satellite Network: Continuing Medical Education through Mass Communication," GW Medical Center, October 1984, pp.2,4. A report on George Washington University Medical Center's agreement to receive the Hospital Satellite Network's programming of continuing education.

"Religious Organizations Actively Develop Interactive Networks," Telespan, November 15, 1984, pp.18-20. Descriptions of the Catholic Telecommunications Network of America and the American Christian Network that provide teleconferencing for religious organizations.

"Videoconferencing: No Longer Just a Sideshow," Business Week, November 12, 1984, pp.116-20. A discussion of new technologies that are reducing the cost of videoconferencing and generating new interest in the teleconferencing field.

Videodisc

Articles

Fujitani, Larry. "Laser Optical Disk: The Coming Revolution in On-Line Storage," AEDS Monitor, September/October 1984, pp.22-26. An explanation of optical disk technology and its high capacity for data storage.

Rice, John. "Aria for Video," Videography, November 1984, pp.63-65. A discussion of the videodisc production of the Metropolitan Opera season.

"Time Project in Medical Education," Videodisc Monitor, November 1984, p.3. A report on the TIME Project, a series of clinical simulations in medical education being developed for videodisc.

"Videodisc: What's Next?" Video Systems, October 1984, p.82. An update on the new videodisc players now on the market and their applications.

Videotape

Articles

Chandler, Judith. "Move Over MTV Videotaped Interviews as an Educational Medium," Media & Methods, December 1984, pp.20,24,52. Descriptions of three projects where taping interviews assisted instruction.

Stamp-Yannone, Denise. "Videotaping to Improve Classroom Management," Media & Methods, December 1984 pp.21-23. An explanation of how to use video to improve student behavior.

Videotex /Teletext

Programs

Electronic Text Consortium Announces Field Test Results

Results from the first series of field tests on the Annenberg/CPB's Electronic Text Consortium projects has been released. A consortium member, University of Wisconsin-Extension, has been testing their package of interactive simulations that support the PBS series "Congress: We the People."

Students in political science classes at the University of Wisconsin-Green Bay and University of Wisconsin-Whitewater were given the opportunity to use electronic study materials in conjunction with viewing "Congress: We the People." They also participated in an electronic mail dialogue with professors and project members.

The simulation game "Campaigning for Congress" was designed to tie directly into the content of the video course. The game simulates a Congressional campaign and requires players to raise funds, make speeches, use the media, and release platforms.

Test results show that students with access to the electronic text support learned the quickest. Students with videotex terminals in their homes scored higher than students with access to terminals in school and students with no access at all.

Contact: Brenda Pfaehler, U of WI-Extension, 608/263-3187.

Articles

"U of FL Text Channel Finds an Audience," Multichannel News, November 5, 1984, p.26. A description of the results of the University of Florida's cabletext channel viewership survey.

Books

Teletext Guidebook. John Carey. Corporation for Public Broadcasting, 1111 16th Street NW, Washington, DC 20036. 49pp. 1984.

A primer on teletext technology that defines basic terms, reviews the early history of teletex, and discusses current activities in the U.S.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

CEC Builds Database on Special Education Technology

The Council for Exceptional Children, with JWK International and LINC Resources, has been awarded a three-year contract by the U.S. Department of Education to establish a Center for Special Education Technology Information Exchange. The Center, operational in late January 1985, will provide a national exchange for the collection and transfer of information about technology advances and applications in the education of handicapped children and youth.

Staff is currently organizing a computer database on emerging technology research, instructional and management applications, program planning and other issues related to the use of technology in special education. Audio, video, and computer-based technologies will be covered. While the information will not be online, the center will maintain an information bulletin board on both Special Net and CompuServ.

Those interested in using the service who have no access to these electronic networks will be able to contact the center starting in February at 800/345-TECH. Staff will answer questions by phone and mail.

Contact: Susan Elting, CEC, 703/620-3660.

Agriculture Education Network Launched

The National Future Farmers of America (FFA) and AgriData Resources, Inc., launched the first national online network for agricultural students, in September. The Ag Ed Network is a database within the AgriData Network, an online agricultural information and communications service.

The new student network is a product of 24 agricultural educators who created the concept of a "live" textbook to support a vocational agricultural curriculum. The Ag Ed Network provides instructional modules supported by up-to-date business, financial, and market-ing information to vocational agricultural classrooms via a data terminal or microcomputer.

The FFA, a national organization for students preparing for a career in agriculture, is helping to further develop the services for the database, ranging from FFA news to current events in agriculture. In addition, the FFA Foundation is soliciting industry sponsors for 500 lesson modules, so there will be no charge for the use of online materials.

Contact: Larry Squire, AgriData Resources, Inc., 800/558-9044, in Wisconsin 800/242-6001.

Articles

Barbato, Joseph. "Where Does the Computer Stop and the Human Mind Begin?" Chronicle of Higher Education, November 14, 1984, p.5. A discussion of sociologist Sherry Turkle's view that technology "not only changes what we do, but how we think."

Carusko, Denise. "Campus Store Angers Dealers," InfoWorld, December 3, 1984, p.17. A description of the dispute between computer retailers and the University of Illinois Champaign-Urbana over a new state law forbidding state universities from selling merchandise that significantly competes with private retail merchants.

Cook, Beth and Truett, Carol. "Media Specialists and Microcomputing," Media & Methods, December 1984, pp.26,31-33. A look at 13 aspects of the changing roles of media specialists.

Fixmer, Rob. "Delphi: An Online Oracle That Works...at a Cost You Can Afford," Link-Up, November 1984, pp.44-47. A description of Delphi Net, a new information utility that offers a lot for less money than CompuServe or The Source.

Gilbert, Betsy. "Jumping on the Network Bandwagon," Advertising Age, November 15, 1984, p.20. An overview of computer networking: its growth and potential.

"IBM Employees on Loan," Electronic Learning, October 1984, p.37. A report on the IBM Faculty Loan Programs that each year loans IBM employees to colleges and universities for developing and improving education for minority and disadvantaged students.

Ingalls, Zoe. "Ideas," Chronicle of Higher Education, November 14, 1984, p.28. Innovative examples of computer use by the University of California at Santa Barbara and State University of New York College at Buffalo.

"A New B-School Mission: Teaching High-Tech Savvy," Business Week, November 19, 1984 pp.170-72. A report on major universities' effort to prepare their business managers to enter the information age.

"Origins of PLATO: A $10 TV Set and the Vision of a Researcher," Chronicle of Higher Education, November 28, 1984, p.23. A profile of PLATO, the computerized instruction system developed in 1960.

Roth, Gene and McEwing, Richard. "Sink or Swim: Orienting Students to Computer Based Instruction," AEDS Monitor, September/October 1984, pp.15-19. Some suggestions for easing students from traditional classroom learning into educational computing.

Stahl, J. Natalia. "Plug-In Center for Students," American Libraries, November 1984, p.724. A report on the Educational Resources Center at Clarkson University that makes resources electronically available to all members of the university community.

Stevens, Mary. "Unversity Welcomes Downloaders," American Libraries, November 1984, p.702. A description of YORKLINE, an online circulation system at Canada's York University that makes access to York's collections easy with a personal computer and modem.

Turner, Judith Axler. "Use of Computers for Teaching Gains Ground," Chronicle of Higher Education, November 28, 1984, pp.1,23. A look at Control Data Corporation's efforts to sell PLATO to the higher education community.

Interactive

Articles

Daynes, Rod. "The Benchmark Project," Video Systems, November 1984, pp.80-82. A discussion of the "Aspen" project developed by MIT and the impact it made on the development of videodisc software.

Daynes, Rod. "Universal Media: A Brief History," Video Systems, October 1984, pp.70-71. An overview of the development of videodisc technology.

McClain, Donald. "Intelligent Videodisc: Development at the University of Iowa," AEDS Monitor, September/October 1984, pp.18-19. A description of the videodisc projects that exemplify the possibilities of interactive video.

Silverstein, Jeffrey. "The World of Work," Videodisc Monitor, November 1984, p.8. A look at the U.S. Department of Education's "The World of Work" project, an integrated media package on the impact of new technologies on the job marketplace.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Stanford U. Plans for Increased Telecommunications Needs

Stanford University expects a 25% jump in the use of voice transmissions and 125% increase in data transmission by 1988-89. To prepare for these communications needs, Stanford has allocated nearly $21 million for a state-of-the-art telecommunications system. Pacific Bell will begin the process by laying a 1.8-mile fiber optic trunk between the university and Pacific's central switching office.

The fiber link will carry telecommunications services between the university's new digital telecommunications system that connects 250 buildings on Stanford properties and Pacific's public switching network.

(Northern Telecom is providing a SL-100 digital communications system for the campus and an on-campus fiber optic system called FOCUS.)

The Stanford/Pacific fiber link will be the first major part of an end-to-end local digital fiber network that Pacific Bell plans to install in the Palo Alto area. When complete, the local network will serve over 100 major businesses, government facilities, and institutions with a wide variety of new telecommunications services, including electronic mail, computer-to-computer messaging, high-resolution graphics, and videotex.

Contact: Bill Massy, Stanford University, 415/497-2300.

Articles

"After Six Months, Nabu Calls It Quits," CableVision, November 26, 1984, p.11. A report that Nabu Network will discontinue operations, unable to find financial backing.

"Combo Madness," Videodisc Monitor, November 1984, p.1. An announcement of new combination laser video and compact audio disc players introduced by Pioneer, Sony, and TEAC.

"The Debut of the Computer-Phone," Newsweek, November 12, 1984, p.83. A report on Rolm's new combination personal computer and telephone.

"Lecturers, Med Students Benefit from Video Use," Video Manager, November 1984, p.2. A look at the electronic modules used at the American College of Cardiology to allow two-way communications between students seated in its amphitheatre and the lecturer.

Petroski, Henry. "Technology Is an Essential Component of Today's Liberal-Arts Education," Chronicle of Higher Education, November 1984, p.88. A commentary on the importance of a knowledge of technology to all students, regardless of their area of study.

"Telecommunications Training Program for Developing Countries Enters Third Year," Broadcasting, November 5, 1984, pp.78-79. A description of the U.S. Telecommunications Training Institute, a joint effort of the U.S. government and the private sector to provide training for telecommunications managers from developing countries.

Turner, Judith Axler. "Colleges Told to Tackle Communications Technology Despite Rapid Changes," Chronicle of Higher Education, October 31, 1984, p.22. A report from a conference on integrated technologies held at Georgia State University.

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A listing of periodicals cited in this issue of Telescan

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Advertising Age. Crain Communications, 740 Rush Street, Chicago, IL 60611.
AEDS Monitor. Association for Educational Data, 1201 16th Street NW, Washington, DC 20036.
American Libraries. American Library Association, 50 East Huron Street, Chicago, IL 60611.
Broadcasting. Broadcasting Publications, 1735 DeSales Street NW, Washington, DC 20036.
Business Week. McGraw-Hill, Inc., 1221 Avenue of the Americas, New York, NY 10020.
CableVision. Titsch Communications, 101 Park Avenue, New York, NY 10178.
Chronicle of Higher Education. Chronicle of Higher Education, 1333 New Hampshire Avenue, Washington, DC 20036.
Communications News. Harcourt Brace Jovanovich, Inc., 124 First Street, Geneva, IL 60134.
Current. Current Publishing Committee, Box 53358, Washington, DC 20009.
EdITV. (Educational and Industrial Television). Charles S. Tepher Publishing, Inc., 50 West 44th Street, New York, NY 06180.
Electronic Media. Crain Communications, 740 Rush Street, Chicago, IL 60611.
Electronic Education. Electronic Communications, Inc., Suite 220, 1311 Executive Center Drive, Tallahassee, FL 32301.
GWU Medical Center. George Washington University Medical Center, Room 712, Walter G. Ross Hall, 2300 Eye Street NW, Washington, DC 20037.
The Independent. Foundation for Independent Video and Film, 625 Broadway, 9th Floor, New York, NY 10012.
Link-Up. On-Line Communications, Inc., 3938 Meadowbrook Road, Minneapolis, MN 55426.
Media & Methods. American Society of Educators, 1511 Walnut Street, Philadelphia, PA 19102.
MIN. (Media Industry Newsletter). William Barlow Publishing, 8 East 53rd Street, New York, NY 10022.
Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
Newsweek. Newsweek, Inc., 444 Madison Avenue, New York, NY 10036.
Satellite Communications. Cardiff Publications, 6430 South Yosemite Street, Englewood, CO 80111.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
Telecommunications. Bell & Howell, Old Mansfield Road, Wooster, OH 44691.
Telephone Angles. P.O. Box 633, West Hartford, CT 06107.
TeleSpan. TeleSpan, 50 West Palm Street, Altadena, CA 91001.
Time. Time Inc., 3435 Wilshire Boulevard, Los Angeles, CA 92713.
TV Guide. TV Guide, Readership Service, Radnor, PA 19088.
Videography. Media Horizons, Inc., 475 Park Avenue South, New York, NY 10016.
Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.
Videodisc Monitor. Future Systems, Inc., P.O. Box 26, Falls Church, VA 22046.
Video Systems. Intertec Publishing Corporation, 9221 Quivira Road, Overland Park, KS 66212.

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TELESCAN

FEBRUARY 1985

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 6

Highlights

CPB SELECTS 18 PROJECTS FOR OPEN SOLICITATION FUNDING

18 television program concepts were selected from 3.2 proposals in the first round of CPB's 1985 Open Solicitation. Proposals were accepted for series ideas and individual program concepts in three television program categories: children's/cultural, news/public affairs, and drama/arts. Deadline for the next proposal submission is April 2, 1985. Current, December 4, 1984, p. 1.

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Focus On:
International Distance Learning

by Marilyn Kressel and Pam Christoffel

The opening of the Dutch Open University was the occasion for a gathering of 13 countries to discuss international efforts to provide higher education to adults through distance learning institutions. This workshop, "Innovation in Higher Education: Distance Higher Education and the Adult Learner," was jointly sponsored by the Dutch Ministry of Education and the Organization for Economic Cooperation and Development.

Held in Heerlen, the Netherlands (site of the Dutch Open University), the workshop attracted participants from the United States, Canada, Japan, and Western Europe. The delivered papers and subsequent discussions focused on varying strategies for providing higher education to adults through open-access institutions. Many of the papers described different aspects of the new Open University in the Netherlands, which admitted 15,000 students for the first time this fall. Students were chosen on a first-come, first-served basis from 55,000 applicants (average age 31). Other speakers described efforts in their own countries to reach out to adult students through distance learning programs,

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open universities and innovative uses of information technologies.

A range of common issues arose during the meeting including:

- the importance of full-time faculty at open access institutions;
- the acceptance of open universities by other academic institutions; and
- the concern over increasing access to previously unserved populations.

Some skepticism was expressed about America's over-enthusiasm toward the potential of technology. Yet all of the countries represented at the workshop recognized the need to provide flexible education and training opportunities for adults. Most saw the new technologies (computers, videodiscs, etc.) as a new set of tools that can be used to provide education and training to people at a distance -- in their homes, in regional centers, or at the workplace. In Europe, however, print and mail remain the principal modes of educational delivery with the exception of the Dutch who are relying heavily on computers.

Representatives from Great Britain, the U.S., Canada, and Japan were generally more positive about the role of technology in providing greater outreach than were their counterparts in Germany, Spain, and Portugal.

Attitudes towards faculty, academic acceptance, and barriers to adult access were influenced by particular national situations. In the wide-ranging discussion that was the heart of the conference, comments included identifying target audiences, and setting priorities among them, social and psychological issues affecting adult learning, and organizational considerations such as centralized versus decentralized systems.

New initiatives in developing distance learning programs are being launched this year in Spain, Portugal, and Japan. In fact, Japan plans to open its new University of the Air in the spring of 1985.

The volume of papers delivered at the workshop will be published later this year by the Dutch Open University. The publication will be distributed in the U.S. through the Center for Learning and Telecommunications. Telescan subscribers will be notified as soon as it is available.

Legislative Update

Broadcasting

The FCC is currently drafting rules to determine whether the 1952 television allocation plan that reserves 242 TV channels for noncommercial/educational use should be modified to permit trades with commercial facilities. This action was triggered by FCC Commissioner James Quello's suggestion that noncommercial broadcasters be permitted to swap their noncommercial VHF channels for commercial UHF channels. (Broadcasting, December 31, 1984)

Already PBS affilate WEDU-TV, Tampa, Fl. has agreed to swap its channel 3 assignment for $25 million and the channel 44 slot currently licensed to WTOG-TV, Tampa. (This arrangement is pending approval by the FCC.)

The FCC Mass Media Bureau intends to present, before the end of March 1985, a draft ruling that will presumably propose to treat commercial-noncommercial swaps similar to commercial tradings. Under existing law and regulation commercial swaps are immune to applications by third parties.

Contact: Mass Media Bureau, FCC, 202/632-6460.

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Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

Disabled Group Meets Monthly Via Audioconferencing

United Together, a national advocacy group for developmentally disabled adults has been conducting their monthly board meetings via audioconferencing for the past four years. The group's 10 board members each have a mental or physical disability and are unable--physically and economically--to attend face-to-face meetings. Teleconferencing has allowed the group to overcome their distant locations, conflicting work schedules, and limited budgets (the board is all volunteer) to meet on a regular basis.

Jackie Osborne of the University of Kansas assists the United Together board during their meetings and helps to define the group's goals. Osborne says that audioconferencing has provided a practical and economical alternative to conventional meetings.

The United Together board currently uses the Regents Network of Kansas bridging system to connect calls nationwide. Many of the board members use speaker phones and some require amplified telephones. The Joseph Kennedy Foundation of New York has funded the audioconferencing activity for the past four years.

Contact: Jackie Osborne, University of Kansas, 913/864-4950.

Radio

Articles

"CPB Establishes FY'85 National Radio Program Fund," NFCB Newsletter, December 1984, pp.1,3. A report on the CPB board's decision to allocate approximately $1.3 million in supplemental funds into national programming rather than Community Service Grants.

"CPB, NPR, NFCB Refile on FM/Channel 6 Interference," CPB Report, December 24, 1984, p.1. A description of the joint petition filed December 17 by CPB, NPR, and the National Federation of Community Broadcasters for reconsideration of the recent FCC FM/Channel 6 interference decision.

Eagan, Arlene. "FCC Settles FM/TV 6 Issues," Radio World, December 1, 1984, pp. 1,6. A discussion of the FCC's FM/TV 6 ruling and its effect on noncommercial educational FM stations.

"New Radio Interest Group Enters Fray," Current, December 4, 1984, pp. 1,9. A look at the Station Resource Group, a new organization of 15 public radio stations working to establish greater station control over public funding and national programming.

Telephone

Articles

"Bypass: A New Industry Trend Digs In," Telephone Angles, December 1984, p.2. An update on the practice of bypassing the local telephone system in order to cut costs that reports 31% of Fortune 500 companies using some form of bypass.

"Patent Award for Phone Line Still Video," TeleSpan, December 1984, p.9. A description of the algorithm that allows the transmission of video, voice, and data over a single voice grade telephone line.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

National Survey of Telecourse Students Released by Consortium

The Instructional Telecommunications Consortium (ITC), an organization of users and developers of telecourses, recently released its spring 1984 national survey on telecourse enrollments. The survey, conducted through 42 institutions in six states, found strong similarities among students enrolled in telecourses.

ITC found that:

- the majority of telecourse students are female and married;
- 80% are employed;
- 80% have enrolled previously in college credit courses; and
- 41% of the students take telecourses because on-campus classes conflict with their schedules.

Statistics were collected from 7,889 student questionnaires. Funding for the development and implementation of the survey came from the Corporation for Public Broadcasting. Copies of the survey are available for $5.

Contact: Ron Brey, Austin Community College, 512/495-7000.

CSU-Chico Developing Partnerships Through ITFS

California State University-Chico connects 16 remote sites through Northeastern California for distant learning via ITFS. The most distant ITFS receive site is located 173 miles north of Chico campus in the community of Yreka; the eastern leg extends 140 miles into the community of Herlong and the Sierra Army Depot; the southern and southeastern legs run into Beale Air Force Base and the computer production facilities of Hewlett-Packard.

Now off-campus ITFS students can complete a BA degree in Social Science or Sociology, a Paralegal Certificate program, and individual minors in California Studies, Family Relations, Gerontology, and Sociology.

In addition to regular ITFS courses, the system has also been used by groups from outside the university to deliver specific educational programs. For example, the California Commission on Peace Officers Standards and Training has utilized the system to provide cost-effective training of law enforcement officials.

Contact: Leslie Wright, CSU-Chico, 916/895-6105.

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Brown, Les. "Perspective: The Revolution Strikes at the Hearth," Channels, November/December 1984, pp.4-5. An overview of major 1984 events in broadcast television.

Cartwright, Steve. "Video in Training: Using Adult Learning Theory," Video Manager, December 1984, pp.41,38. A discussion of seven basic areas to be addressed in designing video training programs for adults.

"Independent Producers Clash with CPB over Seats on Program Panel," Broadcasting, December 10, 1984, pp.83-84. A report on the dispute between CPB and independent producers over seats on the program fund panels.

Leddy, Craig. "Educational Service Moves into Pay TV," Electronic Media, December 20, 1984, p.30. A discussion of George Mason University's new over-the-air pay TV service delivered over excess air time on their ITFS system.

"LPTV: Long Climb in Low Gear," Channels, November/December 1984, p.30. An overview of the status of low power television development.

"Multichannel MDS: Going to Town with Wireless Cable," Channels, November/December 1984, p.46. An explanation of the new service, Multichannel Multipoint Distribution System, created by the FCC in 1984.

"Teaching New Tricks," Training, December 1984, p.114. A report on the findings of an ITT Educational Services study that found some 12 million American employees have not kept pace with technological changes and are obsolete.

"12 TV Limit to Become 12/25% with Discounts," Broadcasting, December 17, 1984, pp.35-36. A description of the final FCC ruling on multiple ownership of broadcasting stations.

"Texas College Builds New LPTV Station," E&ITV, December 1984, p.4. A report on the new low power station currently under construction by the Navarro College in Coricana, Texas.

Cable Television

Programs

U. of Southern Maine Expands Its Reach Via Cable

The University of Southern Maine has been successful in utilizing cable TV technology to connect its off-campus centers for the delivery of instructional programming. USM currently links its two main campuses in Gorham and Portland with four other off-campus centers using a combination of microwave, fiber optics, and cable. Eight distant classes are transmitted among the Gorham, Portland, and Sanford campuses using two-way audio, one-way video transmissions.

USM has also recognized the value of cable TV as a means to reach the community. In Sanford and Portland, USM is now transmitting educational programming directly into homes. Delivery will be expanded to Saco in mid-1985, increasing USM's cable reach to 60,000 home and business subscribers.

In Portland, USM salvaged their university cable channel by forming a 40-member cable consortium to help finance the programming costs. The consortium includes private colleges, local government agencies, performing arts groups, and a medical center. USM began cablecasting the channel in January 1985. Productions planned for cablecast include a Back-to-School-for-Adults information series.

Contact: George Connick, Division of Basic Studies, USM, 207/780-4141.

Articles

"Cable Law: An Enactment Schedule," ACCESS, January 1985, p.5. A timeline of the enactment dates of the provisions of the new Cable Telecommunications Act.

"College Association Eyes Selling Tapes to Cable Operators," Multichannel News, December 3, 1984, p.30. A report on the American Association of State Colleges and Universities suggestion that colleges videotape university events for sale to cable operators.

Kohutanycz, Bill. "Special Report: Telemetry & Cable: Has Its Time Come?" CTIC Cable Reports, November 1984, pp.4-5. An explanation of telemetry (i.e., electronic monitoring) and its current use on cable TV.

Roberge, Paulette. "U.K.'s First Broadband Cable Service Launched in Swindon," Cable Communications Magazine, November

1984, pp. 78-79. An update on the progress of cable construction in the United Kingdom.

Strazewski, Len. "Local Promise May Fall Short of Reality," Advertising Age, December 6, 1984, pp. 11. An overview of the penetration of cable TV in the U.S.

Satellites

Articles

Christopher, Maurine. "Dish Sellers Scramble for Buyers," Advertising Age, December 17, 1984, p.34. A discussion of the earth station owners in the U.S. and their current rights.

"FCC to Address Question of Intelsat Competition," Broadcasting, December 17, 1984, pp.68-69. An explanation of the procedures and issues the FCC will address in changing the current international communications satellite policy.

Freeman, J.L. "Comsat Bows Out of DBS Business," Multichannel News, December 10, 1984, p.3. A report on Comsat's decision to end negotiations with proposed DBS partners on the grounds that the venture would be too risky financially.

Gelman, Morrie. "Growing Pains Subsiding for Hospital TV Network," Electronic Media, December 13, 1984, p.26. A description of the Hospital Satellite Network which offers a full menu of professional programs, teleconferences, and special events 12 hours a day, seven days a week.

Leddy, Craig. "Four New DBS Players Get OK," Electronic Media, December 13, 1984, p.32. A look at the four companies given conditional construction permits for DBS service: Hughes Communications Galaxy, Advanced Communications Corp., Satellite Syndicated Systems, and National Christian Network.

"Reagan Allows Intelsat Competition," TeleSpan, December 15, 1984, p.5. A report on the White House's approval of a new policy that allows private satellite networks to compete with Intelsat.

"Satellites: A Global Reach, for Better or Worse," Channels, November/December 1984, p.50. An overview of the progress of satellite use in 1984.

Teleconferencing

Articles

"AT&T to Drop Public Picturephone Service," Telcoms, December 1984, pp.1-2. A report on AT&T Information System's decision to get out of the public videoconferencing room business.

"Case Study: 'Hospital Marketing Strategies,'" TeleSpan, December 15, 1984, pp.14-16. A look at a recent teleconference produced by the American Hospital Association.

"FCC Authorizes IBS Services," TeleSpan, December 15, 1984, pp.3-4. A description of the overseas teleconferencing services recently approved by the FCC.

Videodisc

Articles

"Optical Videodisc: The Laser's Edge," Channels, November/December 1984, p.19. A look at the progress of videodisc technology in 1984.

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Price, Joseph. "The Optical Disk Pilot Program at the Library of Congress," Videodisc and Optical Disk, November/December 1984, pp.424-32. A description of the Library of Congress's need for multimedia storage and the optical digital disks currently being tested for this purpose.

Videotape

Articles

"VCRs: The Hottest Thing Since Television," Channels, November/December 1984, pp.6-8. An overview of the video cassette recorder and its surge in 1984.

Videotex /Teletext

Programs

San Francisco State U.'s Videotex Service Reports High Usage

San Francisco State University has solved a videotex hardware problem that has plagued many other videotex services. Expensive keyboards or personal computers are not required for access to the university system. San Francisco's 89,000 cable subscribers can access the university's database through their touchtone phones. Viewers of the university's cable channel can dial a phone number that appears on the bottom of their TV screen, then upon hearing an audio tone, respond to a displayed index menu by dialing another number listed to request a specific service.

In 1984, the service averaged 850 calls per day. This high usage makes the university's system one of the largest videotex services in the U.S. in spite of its small, 425-page database. The university plans to increase their database capacity to 10,000 pages in early 1985.

Contact: Harold Layer, ITV Center, San Francisco State University, 415/469-2637.

Articles

"California Ripe for Cable-Based Videotex Services," CableVision, December 10, 1984, pp.131-32. An overview of the many videotex services currently available to California communities.

Cleaver, Joanne. "Keyfax Faces Challenges in Its Chicago Debut," Electronic Media, November 29, 1984, p.16. A description of Chicago's first interactive videotex service, Keyfax.

"Decoder Problems Plague NBC's Try at Teletext," Broadcasting, December 17, 1984, p.40. A discussion of the reasoning behind NBC's decision to drop its teletext service.

Lester, Paul. "Videotex Design: Color Graphics Versus Text Only," Videodisc and Optical Disk, November/December 1984, pp.468-74. A description of videotex experiments conducted by the Journalism Department at Indiana University that reports a preference for graphics in videotex design.

"Teletext and Videotex," Broadcasting, December 10, 1984, pp.66-70. A look at the progress of the two technologies in 1984.

"Videotex--Leisurely Progress," Monitor, December 1984, pp.3-4. An overview of the success of videotex in Europe.

"Videotex: Shifting from Keypad to Keyboard," Channels, November/December 1984, pp.22-23. An explanation of the evolution of videotex technology.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

Electronic Mail Enhances Telecourse at U. of South Florida

Starting this January, students enrolled in the telecourse, "Congress: We the People" at University of South Florida's Open University will be participating in a project to demonstrate and evaluate computer-managed aspects of the course. A random sample of 60 students will be using loaned Radio Shack TRS-80 model 4 computers to take their quizzes and communicate with their course instructor. The experiment will be carried out for three semesters with a control group used as a benchmark against the experimental group. Three variables wil be tested: level of learning, student/faculty satisfaction with the method, and cost.

Students will view the telecourse and operate the computers at home. Correspondence between instructor and students will be conducted via electronic mail.

Contact: Cheryl Swaim, Open University, 813/974-2904.

Articles

Akst, Geoffrey. "Computer Literacy: An Interview with Dr. Michael Hoban," Journal of Developmental Education, Vol.8, No.2, pp.16-19. An interview with a leading authority on the use of the microcomputer in education.

Balestri, Diane. "High Tech, Low Tech, No Tech," AAHE Bulletin, December 1984, pp.11-14. Three case studies of computer use in the classroom that demonstrate how computer technology can be used to solve critical problems in higher education.

Boyden, Patrick. "Computer Software Copyright," Journal of Computer-Based Instruction, Autumn 1984, pp.125-28. A look at the current copyright law and the protection it provides computer programs.

Gabriel, Carl. "CADAM: Elevates High-Tech Skills, Area Economy," Electronic Education, November/December 1984, p.36. A description of Illinois Valley Community College's Computer Assisted Design and Manufacturing program, (CADAM) that prepares students for employment in engineering.

Hartig, Gordon. "Implementing CAI in a University Learning Center, " Journal of Computer-Based Instruction, Autumn 1984, pp.113-16. A report on the positive effect of the use of PLATO CAI lessons on student testing at Indiana University.

Kassnoff, David. "EDITOR System--A Computerized Alternative to the Red Pen," Electronic Education, November/December 1984, pp.42,52. A look at the EDITOR system, an integration of writing, grammar, and spelling programs for Radio Shack computers.

Kirchner, Roger. "Professors Learn from Dr. Logo," Collegiate Microcomputer, November 1984, pp.349-53. A report on the course, "Computer Languages and Thought," that focuses on ideas of artificial intelligence and uses a version of Logo from Digital Research to implement ideas.

Ramsey, Jerry and Darling, John. "Developing a Multipurpose Learning Laboratory," Collegiate Microcomputer, November 1984, pp.295-300. A description of the development of a microcomputer laboratory at Texas Tech University.

Robl, Ernest. "Electronic Publishing: A Revolution in Sight," Link-Up, December 1984, pp.22-28. A discussion of the Association of American Publishers' project to develop a standard format for the coding of electronically-submitted manuscripts.

Tucker, Marc. "Microcomputers: Panic or Panacea?" Change, November/December 1984, pp.58-60. A review of the book, The Campus and the Microcomputer Revolution: Practical Advice for Nontechnical Decision Makers by J. Victor Baldridge.

Turner, Judith Axler. "Campus Computer Users Need More Access to Central Data, Directors Told," Chronicle of Higher Education, December 12, 1984, p.15. A A report from an educational computer conference that revealed a need for more "distributed computing."

Welsbacher, Anne. "The Electronic Postman Always Rings Twice," Link-Up, December 1984, pp.18-19,24. A look at electronic mail and the many new services now available.

Books

Computer Literacy for Teachers: Issues, Questions, and Concerns. John Tashner. Oryx Press, 2214 North Central at Encanto, Phoenix, AZ 85004. 1984. 150pp. $27.50.

A collection of 26 articles designed to help educators gain a better understanding of the impact computer technology is having on schools.

Opportunities in Electronic Publishing. Paul Doebler. Institute for Graphic Communication, 375 Commonwealth Avenue, Boston, MA 02115. 1984. 500pp.

A report, the result of a multi-client supported research project, explores the development and future trends in publishing and electronic communications.

Interactive

Programs

Videodiscs To Aid Critical Care Workers

A library of interactive, computerized videodisc materials for physicians and nurses working in critical care/emergency medicine is being developed by Human Resources Research Organization in conjunction with Intelligent Images, San Diego, Cal. The educational system simulates real-life emergency situations of commonly seen problems. Each videodisc contains a patient care simulation that asks the learner to manage the patient, order diagnostic and therapeutic measures, and to answer a sequence of decisions. Patient charts, x-rays, and laboratory data are continuously provided to assist in the decision making.

The objective of the videodiscs is to provide a bridge between classroom learning and the application of that knowledge in patient care. The simulations can allow emergency departments to teach decision making and problem solving and not involve real patients in the teaching process.

The disc and software was made available January 1, 1985. It is currently being tested in critical care units throughout the U.S.

Contact: William Underhill, Human Resources Research Organization, 703/549-3611.

Articles

Daynes, Rod. "Exploring New Concepts," Video Systems, December 1984, p.73-74. A look back at 1984 and the new developments in videodisc technology.

Howe, Samuel. "Interactive Video: Salt

& Pepper Technology," Media & Methods, January 1985, pp.8-12. An explanation of interactive video and its uses.

"Interactive Video Center Opens in U.K." Telcoms, December 1984, p.11. An announcement of the opening of the National Interactive Video Centre in London that will produce case studies and conduct seminars on interactive video training.

"Q&A: Russell Sawchuk, ACCESS Alberta," The Videodisc Monitor, December 1984, p.8. An interview with the associate director of the instructional technology unit for ACCESS Alberta on ACCESS's videodisc projects.

Silverstein, Jeff and Mengel, Craig. "Evaluating Interactive Video," Video Manager, December 1984, p.15. A discussion of the power of interactive systems to ask, "How am I doing?"

Books

Effectiveness of Videodisc Training: A Comprehensive Review. Michael DeBloois. The Videodisc Monitor, P.O. Box 26, Falls Church, VA 22046. 1984 78pp. $50.

This report summarizes the history and development of interactive videodisc-based training, and includes a thorough review of the literature on the effectiveness of disc training.

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• MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

NYU's Apple Bytes Combines Three Technologies to Offer Electronic Text

The Alternative Media Center at New York University has linked together three technologies--the personal computer, the telephone, and cable television to create a unique electronic information service, Apple Bytes. (The service gets its name from the Apple II Plus microcomputer used in the system production). Apple Bytes consists of text and color graphics created on the microcomputer and distributed over cable to home subscribers of Manhattan Cable.

The service, accompanied by an audio tape of city sounds, provides information on events, services, and new places of interest in the Manhattan community. Apple Bytes is cablecasted several times a day--each transmission is 15 minutes long and contains about 150 pages of information.

Apple Bytes was designed for use as a prototype in other community settings. It is funded by the Charles H. Revson Foundation.

Contact: Lynn Applebaum, NYU, 212/598-2451.

Articles

Brooke, P. "New Eras in Education," Journal of Educational Television, Vol. 10, No.3, pp.157-60. An examination of the new era of education--an era of communication based on the information technologies.

Caruso, Denise. "Modem Uses FM Radio Waves," InfoWorld, December 31, 1984, pp.18-19. A look at two products that use excess capacity of FM radio stations to broadcast digital information.

"Telephony: Dial "1" for Competition," Channels, November/December 1984, p.66. A discussion of the computer/telephone now on the market from IBM and AT&T.

"26 New Training Rooms at University of Texas Are Linked," Telcoms, December 1984, p.10. A description of the system presently planned for University of Texas classrooms that will link audio/video systems with a data distribution network.

Books

Proceedings: International Technical Communications Conference. Eric Document Reproduction Service, P.O. Box 190, Arlington, VA 22210. 1984. 589pp. $42.40 paper, $1.74 fiche.

A compilation of conference papers from the 31st International Technical Communications Conference held April 29-May 2, 1984. The topics covered includes: technology training, technical communication research, and the problem and promise of automation in technical communications.

Mind and Media: The Effects of Television, Video Games, and Computers. Patricia Greenfield. Harvard University Press, Cambridge, MA 02138. 1984. 210pp. $18.

A thoughtful and timely book that deals with the human, social, and psychological factors relating to the new and developing electronic media. The author demonstrates a knowledge of the relevant research and recommends more appropriate uses of media in education.

INDEX

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TELESCAN

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The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 7

Highlights

REAGAN ADMINISTRATION REDUCES FUNDING FOR CPB IN FY 1986 BUDGET

On February 4, the Reagan administration released its FY 1986 budget that proposed a $186 million appropriation for CPB in FY 1987. This is a $14 million rescission from the $200 million appropriated by Congress last year. For FY 1988 the budget requests $214 million for CPB. CPB Report, February 11, 1985, p.1.

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Focus On:

Electronic Text

In the past, the development and delivery of electronic text services has been considered a very costly endeavor -- one taken on only by major corporations with substantial financial backing. But recent trends in the telecommunications marketplace are making the bulk of electronic text services economically viable for even institutions of higher education.

What is electronic text? The term defines three kinds of computer-based electronic communications:

- microcomputer networks such as CompuServe or The Source;
- interactive home videotex systems such as Viewtron or Gateway; and
- teletext systems like those provided by CBS and NBC.

Some major education uses for electronic text might be: stand alone courses, supplements to classroom instruction, electronic mail among students and administrative departments of a college, simulations, educational games, and conferencing/seminar use. A college or university may deliver these services many different ways, by:

- creating a teletext service on a local public TV station, cable channel, or campus closed-circuit system;
- creating a videotex service on a campus mainframe computer, minicomputer, local area network, or

(Continued on page 2)

(Continued from page 1)

high end microcomputer;

- creating electronic text on diskettes to be used by students on their personal computers; or
- downloading electronic text via broadcast teletext or videotex for storage in a student's personal computer.

Why electronic text is now more economically feasible than in the past has a lot to do with the success of the personal computer. In the 1970s, the electronic text planners developed dedicated terminals to provide teletext and videotex services. The cost of these terminals in addition to usage fees proved too expensive for the consumer marketplace. Fortunately for videotex suppliers, personal computers (which can be adapted to serve as a videotex terminal) have penetrated American households at a rapid rate. This trend has had a major impact on the videotex industry. Currently, text providers are abandoning dedicated terminals to develop text-only services aimed at personal computer owners.

For the higher education community this growth of personal computers among college students and faculty is even more dramatic. In many colleges and universities around the country a large market has developed for electronic text services.

Another recent development has opened the possibility for electronic text services on campuses -- the production of technology and software for local area networks. LANs are usually fiber optic or cable networks that link personal computers in addition to carrying voice and video transmissions. Local area networks offer the potential to reduce the costs of some videotex services as well as to improve the speed and reliability of service delivery. For videotex users, a significant feature of LANs is the potential to reduce the dependence on time sharing of a microcomputer or mainframe plus allowing LAN users to interconnect with other means of data

(Continued on page 4)

Legislative Update

Satellites

During the last week of November, the Reagan administration announced its support for private satellite systems that would compete with INTELSAT as providers of international satellite service. Concurrent with this action, the Secretaries of State and Commerce sent a letter to the FCC setting forth criteria to consider in its review of five applications currently pending approval.

The letter outlined three areas for the evaluation of applications for new international satellite telecommunications systems:

- Competing systems may only sell or lease basic space segment capacity for international communications "not interconnected with public switched message networks."
- At least one country (other than the U.S.) must also authorize the system.
- The system operator must consult with Comsat to ensure that its system is technically compatible with and will not create "significant economic harm" to INTELSAT.

The five proposals for private international systems currently filed at the FCC are: Orion Satellite, Inc.; International Satellite, Inc.; Cygnus Satellite; RCA American Communications, Inc.; and Pan American Satellite Corp.

Contact: Mary Diebler, PSSC, 202/331-1154.

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AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

Telemedicine for Ontario Is Serving Health-Care Continuing Education Needs

Telemedicine for Ontario is a non-profit audioconferencing service that produces and delivers continuing education programs to health-care professionals in the Ottawa area via audioconferencing. Telemedicine offers programs for three kinds of health-care professionals: nurses, allied health workers, and physicians. Between 10 and 15 audioconferences are held weekly.

A typical program consists of an hour-long audio transmission with a speaker addressing a current health-care issue for 25 minutes and the remaining time left for discussion. All audioconferences are recorded on cassettes that are available for $25. Slides and hand outs that accompany lectures are disseminated to sites prior to the audioconference. Telemedicine can currently link 80 sites; each program costs $20 per site.

This is the third year of Telemedicine's operation. It is funded by the Canadian Ministry of Health and five Canadian universities.

Contact: Judy Biggar, Telemedicine, 416/595-4472.

Articles

Scan Net Growing: NYU to Begin Puerto Rico Link," Telcoms, January 1985, p.9-10. A discussion of the ad hoc audio and freeze frame teleconferencing system, Scan Net.

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Van Eeckhout, Gerald. "Audio Meetings Pass the Test for Use By Higher Education," Communications News, February 1985, pp.76-77. A look at several university audioconferencing systems.

Radio

Articles

"FCC Freezes Noncoms," NFCB Newsletter, January 1985, pp.1,3. A report on the FCC's recent ruling that has halted the acceptance of all applications for new noncommercial FM stations.

Hughes, David. "Groups Fight TV-6 Ruling," Radio World, January 15, 1985, pp.1,10. A look at the petitions for reconsideration of the FCC's FM/TV-6 ruling.

"The No Man's Land of High Tech," Time, January 14, 1985, p.58. A discussion of how new devices like cordless telephones can aid police but threaten the right of privacy.

Werden, Frieda. "CPB Nips Off $300K from Nipper Budget," Current, December 22, 1985, pp.1,4. A report on NPR's preparation of a $330,000 shortfall in 1985.

Telephone

Articles

"In Long Distance, a Battle for Sur-

vival," Business Week, January 14, 1985, p.106. A discussion of the outlook for the telephone industry in 1985.

"AT&T's 'Bypass' Plan Is Sure to Start a Fight," Business Week, February 4, 1985, p.94. A report on the AT&T proposal before the FCC to allow its large customers to bypass the local Bell companies.

Simon, Sam. "Divestiture One Year Later: It's Not Working," ACCESS, November/December 1984, pp.1,14. An explanation of the AT&T divestiture and why it isn't benefitting residential consumers.

Turner, Judith Axler. "'Plain Old Telephones' Give Way to Sophisticated Campus Systems," Chronicle of Higher Education, January 23, 1985, pp.1,12-13. A look at the explosion in telephone service demand at universities and the new telecommunications systems being installed to meet this need.

Electronic Text

(Continued from page 2)

transmission when necessary. Many colleges and universities are already building LANs to connect buildings and other campuses.

Finally, it is now possible for text services to reduce the amount of time of continuous communication with host computers by sending packages of information to users who can go off line after receiving the data. This development has greatly reduced the hourly cost of telephone connection time and has enabled users to lower their costs.

The Electronic Text Consortium has published a number of papers on the subject of electronic text and higher education. The publications are available through the Consortium at the Center for Communications, San Diego State University, San Diego, CA 92182; 619/265-6933.

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VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Articles

"FCC Serious about Quello Plan," Broadcasting, January 7, 1985, p.54. A report on FCC plans to draft rules enabling noncommercial broadcasters to swap their VHF channels for commercial UHF channels.

"Money for Kidvid/Ed Upped $4 Mil," Current, January 15-28,1985, pp.1,5. A discussion of CPB's staff recommendation to allocate additional money in FY 1985 and 1986 for "children's-education programming."

"Offers There, but Few Takers for UHF-VHF Swap," Broadcasting, January 21, 1985, pp.82-83. A description of public broadcasters' reactions to the FCC's UHF-VHF swap idea.

Pryor, Jeff. "14 LPTV Stations Reporting Profits," Electronic Media, January 24, 1985, p.21. A look at the outlook for low power stations in 1985.

Traub, James. "The World According to Neilson: Who Watches Television -- and Why," Channels, January/February 1985, pp.26-32,70-71. An analysis of American television viewing habits.

Vick, Karl. "PBS Affiliate Gets $25 Million for VHF Slot," Electronic Media, January 3, 1985, p.3. A report on the decision by a Tampa, Fla. PBS station to swap its VHF channel for a commercial UHF assignment and $25 million.

WNYC-TV May Lease Air-Time Commercially," Current, December 22, 1984, pp.1, 5. An announcement of public station WNYC-TV's agreement to lease 14 hours a week to commercial broadcasting companies. (WNYC is the only PTV service in the country operating on a commercial license.)

Cable Television

Programs

Knowledge Network Serves British Columbia as Educational Delivery System

Since 1980, Knowledge Network of the West Communication Authority has offered postsecondary institutions in British Columbia a telecommunications system for delivery of courses via cable TV. Cable companies are legally required to offer an educational channel in the province, so cable subscribers throughout British Columbia are able to receive educational courses in their homes.

Courses are broadcast from the University of British Columbia and the University of Victoria, and carried via microwave to the Knowledge Network master switching center where the signal is uplinked to the Canadian satellite ANIK-C. Cable companies in British Columbia then pick up the satellite signal and send it to their subscribers.

The University of Victoria produces all its own video and audio materials through the Audio Visual and Television Series department. The university offers a variety of graduate and undergraduate courses. Each course is developed by a three-member team: a project director, course specialist, and distance education consultant. Victoria estimates that a 39-hour undergraduate course delivered via print and ten one-hour television sessions costs between $20,000

and $25,000 in direct costs with an additional $40,000-$55,000 costs for development.

In the last five years, the university has found a completion rate of distance education courses to be 77 to 99 percent. Victoria attributes these high figures to distant learners who exhibit a strong motivation to learn, to the supplemental print materials; and support services. Instructors are available at least twice during the week to receive student calls. Students also are able to converse with their instructors on air by dialing a long-distance number.

Contact: Margaret Haughey, University of Victoria, 604/721-7211.

Articles

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"FCC Orders Carriage of MD Educ. Station," Multichannel News, January 7, 1985, p.4. A report on the FCC ruling that ordered two Maryland cable operators to carry WHMM-TV in compliance with FCC mandatory carriage rules.

Freeman, J.L. "FCC Seen Deep Sixing Stereo Must-Carry," Multichannel News, January 28, 1985, pp.1,49. A discussion of the unlikelihood that the FCC will force cable operators to carry stereo broadcasts in the near future.

Hulser, Kathleen. "Towards an Imperfect Video," Independent, January/February 1985, pp.46-49. A look at public access to cable TV and its usefulness to independent film and video producers.

"St. Louis County's Special School District Prepares for Special Network," CableVision, January 21, 1985, p.14. A description of "Special Network," a cable project run by the St. Louis County School District providing educational programming to the general public and to families of disabled children.

Satellites

Programs

Naval Academy Uses Foreign Satellite Transmissions for Language Study

The U.S. Naval Academy, through the initiative of language studies professor John Hutchins, has installed a satellite antenna to receive foreign satellite transmissions. The Academy can access Intelsat's Atlantic Ocean satellites, the Soviet Gorizat satellite, French Telecom spacecraft, and all Canadian and American domestic satellites.

The dish was installed atop the Academy's educational television studios last April. Since then, raw satellite feeds have been processed into a series of 10- to 15-minute videotapes for the purpose of foreign language and international relations study.

The Academy has acquired multistandard video recording units so that programs originating in PAL, SECAM, or NTSC can also be taped for classroom use.

These tapes eventually will be combined with computer technology for interactive instruction. Tapes focusing on foreign language word usage, style, and technique of presentation will be linked to computers for self-paced lessons. This will provide feedback for students as well as potential for unlimited replay.

Contact: John Hutchens, Naval Academy, 301/267-2198.

Articles

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"Calling Overseas: The New Battle of the Atlantic," Business Week, February 4, 1985, pp.92-94. A report on how

opening the competition to Intelsat services could lower overseas telephone calls.

"KU Collective in Florida," Broadcasting, January 7, 1985, pp.187-90. A discussion of plans by four Florida television stations to form a Florida News Network to cover and exchange news stories.

Marcom, John. "Satellites Search for Business as Demand Misses Predictions," Wall Street Journal, January 11, 1985, p.21. A report on the satellite glut and how it is affecting the satellite industry.

"Nationwide Satellite System Offers Engineers Graduate Courses at Work Site," NUCEA News, January 1985, pp. 2-3. A description of the National Technological University, a nationwide satellite system that began broadcasting engineering courses from 16 colleges and universities this fall.

Stephens, Guy. "Will DBS Bridge Its Troubled Waters?" Satellite Communications, February 1985, pp.34-35. A look at direct broadcast satellites and their future in 1985.

Teleconferencing

Articles

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"Teleconferencing in Australia," TeleSpan, January 15, 1985, pp.16-20. An overview of the history and current use of teleconferencing in business and education in Australia.

"Teleconferencing Making New Gains via More Cost-Effective Technology," Communications News, February 1985, p.58-59. A look at teleconferencing use in 1985.

Videodisc

Articles

Balson, Paul. "Instructor-Controlled Versus Student-Controlled Training in a Videodisc-Based Paramedical Program," Journal of Educational Technology Systems, Vol.13, Iss.2, 1984-85, pp. 123-30. A description of an experiment comparing the advantages and disadvantages of videodisc-based training.

Pomerory, Eleanor and Toothman, J.P. "Videodiscs and Medical Education," Journal of Educational Technology Systems, Vol.13, Iss.2, 1984-85, pp. 115-21. A look at the developing potential of videodisc use in medical education.

"Tech Talk: Pioneer's CLD-900," Videodisc Monitor, January 1985, p.7. A profile of a new videodisc player by Pioneer that plays 8-inch and 12-inch videodiscs with compact audio discs.

"A User's Perspective: Colonel Roy Bernd, Army Communicative Technology Office," Videodisc Monitor, January 1985, pp.16-17. A discussion of current military use of videodisc technology.

Books

Videodisc Feasibility Study: An Evaluation of the Use of Videodisc as a Distribution Medium. Ralph France. MITECH, Maryland Public Television, 11767 Bonita Avenue, Owings Mills, MD 21117. 1983. 21pp. (free)

This study evaluates the practicality of using videodiscs to distribute the television programs that are part of the courses of the International University Consortium for Telecommunications in Learning, a network of colleges and universities in partnership with public broadcasting stations and cable systems.

Videotape

Articles

Lachenbruch, David. "VCRs: You Ain't Seen Nothing Yet," Channels, January/February 1985, p.16. A look at innovations in VCRs soon to hit the market.

"Smorgasbord of How-To Home Videos," Business Week, January 21, 1985, p.55. A report on the growth of self-improvement and instructional videotapes now available for the home.

Videotex /Teletext

Programs

British Launch Educational Service Via Electronic Text

The British Council for Educational Technology has announced a series of electronic text activities on Prestel, their national videotex service. As of January 1985, CED's Prestel Educational Service has been downloading microcomputer programs to schools via videotex. The service will provide a guide to courses at British universities, colleges, and polytechnics; information on career opportunities for students; and low-cost equipment packages that allow personal computers to access Prestel. CED will also supply personnel for support to schools that wish to set up their own videotex services.

Contact: John Carey, Greystone Communications, 914/693-2535

KUON-TV Breaks New Ground in Development of Videodisc Courses

While many courses have been redesigned with videotex components, KUON-TV, University of Nebraska-Lincoln, wanted to develop a course totally from scratch for delivery over videotex. As part of the Electronic Text Consortium Project, KUON-TV is currently developing such a course that utilizes videotex and correspondence as a delivery mode. The independent study course, Introduction to Marketing, is now in production in cooperation with the UN-L Division of Continuing Studies.

The course is initially being produced for diskette via the IBM PC. This interactive portion of the course includes simulations and case studies, as well as self-check tests. After the microcomputer version of the course is completed, materials will be converted for videotex delivery. KUON has preliminary commitments from Keycom and Gateway to carry the instruction modules.

"Introduction to Marketing" is targeted to distant learners, not campus students. Its simulation material makes heavy use of computer graphics in addition to text. Students are able to pre-test and post-test their learning abilities throughout the course.

After the development of the marketing course, KUON-TV will establish and implement an instructional design procedure for a complete videotex/independent study course. A report on this procedure will be issued by KUON-TV through the Electronic Text Consortium in 1985.

Contact: Lee Rockwell, Nebraska ETV Network, 402/472-3611.

Articles

"For Videotex, the Big Time Is Still a Long Way Off," Business Week, January 14, 1985, pp.128-33. An overview of the current status of videotex in the U.S.

"Graphics vs. Text: The Volatile World of Videotex," Broadcasting, January 14, 1985, pp.162-68. A report on how the growth of home personal computers has changed the videotex industry.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

Computer Generated Graphics Enhance Calculus Classes at CO School of Mines

Professor Robert Fisk has been using computer generated graphics in his calculus classes at the Colorado School of Mines to enhance the learning and understanding of some mathematical concepts. Fisk presents the graphics through an Apple II+ 48K computer, a large screen video projector, and the software package ARBPLOT.

The graphing capability of ARBPLOT enables Fisk to demonstrate geometric relationships between functions and their derivatives. The computer graphics allow the students to concentrate more on the results obtained from a graph rather than on the objective of getting the correct graph.

Fisk reports students indicate that they have learned more about graphing and interpreting graphs from his demonstrations. Fisk limits the number of graphs demonstrated in a class to six or eight since displaying the graphics can often be a time-consuming endeavor. He also encourages students to use ARBPLOT on their own time to satisfy their own curiosity about functions.

Contact: Robert Fisk, Colorado School of Mines, 303/273-3000.

Digests Online Will Provide a Full Text Database for Educators

The Educational Resources Information Center (ERIC) has developed a full text database of short reports called, ERIC Digests Online. Designed to provide online users with current information on education, Digests Online will consist of reports, approximately 1500 words in length, covering a range of topics such as educational quality, the uses of technology in education, and policy issues in education. Forty titles will soon be available through an online information service such as CompuServe or The Source.

Contact: Mima Spencer, ERIC, University of Illinois at Urbana-Champaign, 217/333-1386.

Articles

Brenner, Lisa and Cowan, James. "Computers in Health Science Education: Communications and Management," Journal of Educational Technology Systems, Vol.13, Iss.2, 1984-85, pp.97-106. A look at the automated health science university of the future.

Choate, Ray. "The Online Revolution and the Reference Desk: The Australian Experience," Special Libraries, Winter 1985, pp.24-30. A discussion of libraries in Australia and their attempts to network and provide data bases.

"Computer Conferencing Aids Distant Learning at American Open University," Telcoms, January 1985, p.13. A report on American Open University's use of computer conferencing to reach students.

Demas, Samuel. "Microcomputer Software Collections," Special Libraries, Winter 1985, pp.17-23. An overview of the special considerations in developing software collections for libraries, including information on copyright protection.

Grobe, Susan. "Nursing Education Module Authoring System - Nemas," Journal of Educational Technology Systems, Vol.13, Iss.2, 1984-85, pp.83-89. A description of the development of a computer-based authoring system for the creation of computer-assisted nursing instructional modules.

Mays, Marilyn. "Computer Utilization Studies in Higher Education: Perceptions vs. Realities," AEDS Journal, Winter 1984, pp.106-13. A summary of research on computer utilization in higher education that identifies crucial areas for future study.

Picard, Don. "Inside CompuServe," Link-Up, January 1985, pp.7-11. A profile of the CompuServe Network that looks at why this service is so popular.

Rhein, Bob. "Five User Branches Grow in W. Hartford," T.H.E. Journal, January 1985, pp.84,86. A description of the University of Hartford's computer user centers that make computers available to their more than 9,000 students.

Schramm, Karin. "The Introduction of Data Processing in Middle-Level Accountancy Training Programs in Developing Countries: A Case Study," T.H.E. Journal, January 1985, pp.102-103. A report on the technical assistance project at the Botswana Institute of Administration and Commerce that explores the introduction of computer technology in a developing country.

Shaw-Nickerson, Ethel and Kisker, Katherine. "Computer-Based Simulations in Evaluating Registered Nurse Students in a Baccalaureate Program," Journal of Educational Technology Systems, Vol.13, Iss.2, 1984-85, pp.107-13. A description of the use of computer-based simulations to evaluate educational and experiential learning for course credit.

Stecher, Brian. "Improving Computer Inservice Training Programs for Teachers," AEDS Journal, Winter 1984, pp.95-105. An examination of a 120-hour inservice training program on the use of the computer as a multi-purpose educational tool.

Books

Computer Education for Colleges of Education. Jean Rogers. Association for Computing Machinery, Order Department, P.O. Box 64145, Baltimore, MD 21264. 1983. 118pp. $12.

A report of a 1982 workshop held in Kansas City, Missouri, to consider instructional uses of computers in pre-college education and what colleges of education should be doing.

Interactive

Articles

Allen, David. "Linking Computers to Videodisc Players," Videography, January 1985, pp.26-34. A listing of different hardware hookups that connect videodiscs with computers.

Gelman, Morrie. "Interactive Laserdisc System Highlights Electronic Meeting," Electronic Media, January 17, 1985, p. 26. A description of the Halcyon interactive laserdisc system and its potential for training and education.

Hon, David. "Interactive Video: The Second Phenomenon," Video Manager, January 1985, p.10. A discussion of the evaluation abilities of interactive video.

"Projector Brings Interactive Video to Computer Classes," T.H.E. Journal, January 1985, p.92. A report on a University of Wisconsin professor who is using computer-projected graphics for his course in electronic engineering.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Penn State Develops Computer/Audio Interactive Program

Robert Ariew, associate professor of French at Pennsylvania State University, has developed hardware to interface an Apple II 48K computer and a audio cassette player for the purpose of interactive instruction. Ariew has devised an instructional software package called "Blossom" for Penn State French students to use on the system. The package consists of eight computer/audio modules that supplement introductory French instruction. Each module begins with an audio presentation of a classic folk tale told in French accompanied by computer graphics. The exercise introduces key vocabulary words and grammatical construction. This is followed by a series of computer-based exercises and games that deal with various verb tenses.

The package is available from the Audio-Visual Services Department, Penn State. Contact: Gary Miller, WPSX-TV, 814/865-3637.

Articles

Jarrett, C. Douglas. "Emerging Competitive Environment in International Telecommunications," Business Communications Review, January/February 1985, pp.7-12. A discussion of international telecommunications development as competition to INTELSAT services.

Metz, Sandra. "Computers in Telecommunications," Telecommunications, January 1985, pp.78a-81a. A report on the importance of integrating technologies.

Schley, Stewart. "Telco Joins Group Developing Transtext," Multichannel News, January 7, 1985, p.5. A description of Pacific Bell's plans to combine a pay-per-view telephone ordering unit to a cable-delivered programming service, Transtext.

"Telecom System Links University Campuses," Communications News, January 1985, pp.80-81. A look at the development of Temple University's telecommunications and computer networks.

"Western Wyoming College and the University of North Carolina Use Fiber-Optic Local-Area Network from Siecor to Connect Campus Buildings," Communications News, January 1985, p.20. A report on the fiber optic systems that will provide videoconferencing and data links for the two colleges.

Books

Educational Use of New Media in Japan. Eric Reproduction Service, P.O. Box 190, Arlington, VA 22210. 1984. 38pp. $3.90 paper, $1.19 fiche.

An analysis of the educational effectiveness and potential for educational utlization of a variety of new media, including: high-definition TV, videotex, teletext and videodisc.

Tracking the New Technology: A Summmary of the Second Invitational Postsecondary Educational Review Panel. C.H. Sterling. Eric Document Reproduction Service, P.O. Box 190, Arlington, VA 22210. 1983. 9pp. $2.15 paper. $1.19 fiche.

A summary of the second educational technology review panel's discussions on the trends and impact of newer technologies on the home and institutions of higher education.

INDEX

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Broadcasting. Broadcasting Publications, 1735 DeSales Street NW, Washington, DC 20036.
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CableVision. Titsch Communications, 101 Park Avenue, New York, NY 10178.
Channels. Media Commentary Council, 304 West 58th Street, New York, NY 10019.
Chronicle of Higher Education. Chronicle of Higher Education, 1333 New Hampshire Avenue, Washington, DC 20036.
Communications News. Harcourt Brace Jovanovich, Inc., 124 First Street, Geneva, IL 60134.
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Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
NFCB Newsletter. National Federation of Community Broadcasters, 1314 14th Street NW, Washington, DC 20005.
NUCEA Newsletter. National University Continuing Education Association, Ohio State University, 210 Sullivant Hall, 1813 North High Street, Columbus, OH 43210.
Radio World. Industrial Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, VA 22041.
Satellite Communications. Cardiff Publications, 6430 South Yosemite Street, Englewood, CO 80111.
Special Libraries. Special Libraries Association, 235 Park Avenue South, New York, NY 10003.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
Telecommunications. Bell & Howell, Old Mansfield Road, Wooster, OH 44691.
TeleSpan. TeleSpan, 50 West Palm Street, Altadena CA 91001.
Television/Radio Age. Television Editorial Corp., 1270 Avenue of the Americas, New York, NY 10020.
T.H.E. Journal. Information Synergy, Inc., P.O. Box 17239, Irvine, CA 91001.
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Videodisc Monitor. Future Systems, Inc., P.O. Box 26, Falls Church, VA 22046.
Videography. United Business Publications, Inc., 475 Park Avenue, Westport, CT 06880.
Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.
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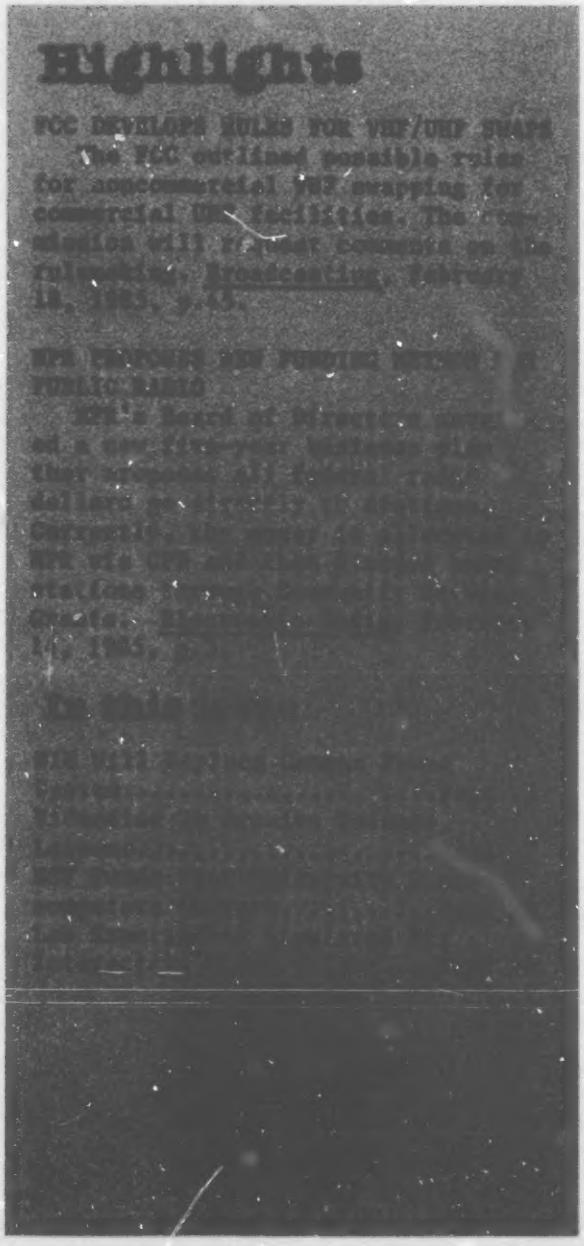

Focus On:

Instructional Television Fixed Service

by Joan Gudgel

In 1963, the Federal Communications Commission authorized 28 microwave channels to be set aside in each community for an Instructional Television Fixed Service. ITFS was intended to provide "a means for transmission of instructional and cultural material in visual form to students enrolled in accredited public and private schools."

Some institutions of higher education used this opportunity to form networks to reach distant learners. In 1966, there were only six ITFS delivery systems in the U.S.; by 1976 there were 186. Stanford University formed SITN, a wholly self-supporting network to supply engineering continuing education courses on four ITFS channels. TAGER, The Association for Graduate Education and Research in North Texas, developed as a consortium of 17 higher education institutions to offer graduate-level engineering, business, and computer science courses to corporate employees at their work sites. And California State University at Chico provided a network to serve off-campus residents of 13 rural Northeastern California counties with upper-division credit courses.

While many educational institutions applied for ITFS channels for use in distance learning, many did not. So in 1982 when Microband Corp. asked the FCC

(Continued on page 2)

(Continued from page 1)
for additional microwave channels in order to compete with cable, the FCC looked to the unused channels of the ITFS spectrum for a possible answer to the multipoint distribution service dilemma.

In May 1983, the FCC reallocated eight of the 28 ITFS channels (in cities where they weren't already claimed). These eight channels would make up two sets of the four-channel multichannel multipoint distribution service. The new broadcast service, MMDS, was born. By Fall 1984, some 16,000 applications for these licenses were pending before the FCC. At the same time the FCC ruled that ITFS operators could lease a channel for commercial use if they used it for educational purposes 15 hours a week between 8 am and 10 pm, Monday through Friday during the school year.

Now that ITFS had the potential to generate revenue, a flurry of applications by nonprofit "educational" groups ensued. Final rules are expected this spring. But how have these interim rules affected ITFS operators?

Many educational institutions that in the past had little capital to construct and operate ITFS networks are looking into the possibility of leasing part of their programming day to finance educational programming.

Tod Gray, a lawyer with the Washington, D.C. firm Dow, Lohnes, and Albertson, has been assisting some educational institutions in these negotiations. According to Gray, a typical leasing agreement would require the ITFS operator to give up 75% of its air time in exchange for payment of transmitter construction costs (maybe receive site construction costs), use of the channels during traditional school hours, and a monthly fee -- perhaps 10 cents per subscriber or a minimum of $500 per month.

Microband Corp. has quickly become the major commercial negotiator in the lease area, with plans to establish a wireless cable system in 20 markets. Among the institutions Microband has been negotiating with for their excess or unused broadcast capacity are: Harvard University, Atlanta Public Schools, Pennsylvania Hospital TV Network, Georgia Tech University, Santa Clara Office of Education, and District of Columbia Public Schools.

Microband, together with satellite dish manufacturer M/A-Com, introduced their wireless cable system, March 14, at a luncheon at the National Academy of Arts and Sciences. Mark Foster, Microband chairman of the board, reported that the company is on track with its plans to introduce its MMDS five channel system in Milwaukee, Wis.; Washington, D.C.; and Santa Clara, Cal. Its Brooklyn, N.Y. system could be available as early as April.
The University of California at Berkeley is currently leasing time to Microband. A PBS station in Cleveland has agreed to lease part of their ITFS channels to the local cable operator. And the D.C. Public Schools has hired John Curtis' Center for Excellence to program their elementary school ITFS channels.

For those educational institutions with applications still pending, the FCC's final rules will have a major impact on these negotiations. More importantly, the rules will determine their chances for getting ITFS licenses in the first place.
(Continued on page 4)

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The Center for Learning and Telecommunications publishes Telescan on a monthly basis to assist academic decision-makers in discovering the programs, projects, research, and other initiatives that effectively utilize technology in postsecondary settings.

Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Telephone

Programs

NIU Installs Its Own Phone System

Northern Illinois University plans to replace its entire telephone system by December 1985. The task began late January with the approval of the purchase of a Northern Telecom SL-100 Digital Communications from Continental Telecom Inc. Under the terms of the purchase, valued at $6 million, Continental will install the system and provide maintenance support.

The new system, which includes the recabling of the entire campus and the installation of a new digital communications system, will provide 7,100 telephones to serve the university's community.

Features of the new system include:

- integrated voice/data applications,
- an optical-fiber link to an off-campus research facility,
- a digital link to the public telephone network,
- an electronic text-mail system, and
- a telecommunications management information system.

Gene Clemans, NIU's telecommunications systems consultant, said that a telephone inventory is in progress at Northern to determine where new equipment should be located, plus an orientation program has begun to explain the system installation process. Contact: Bob Waggor, NIU, 815/753-1681.

Articles

"AT&T Signs Up University of Maryland as ISN Customer," Telecommunications Equipment News, January 1985, pp.4-5. A description of the local area network that AT&T will install at the University of Maryland to link together 10 campus buildings.

"Is the Long-Distance Deck Stacked in AT&T's Favor?" Business Week, February 25, 1985, pp.101-102. A report on complaints by AT&T competitors about poor public response to the equal access laws.

"A Look at the Year End Wrap-Ups," Telecommuncations Alert, February 1985, pp.2-4. An overview of many periodicals' evaluations of the year 1984 in respect to the telephone industry.

Radio

Articles

"FCC Relaxes Freeze; NFCB Requests Further Lifting," NFCB Newsletter, February 1985, pp.1,3. An explanation of the January 28 relaxation of the FCC freeze on accepting noncommercial FM station applications. Now the FCC will consider applications that reach agreements with potentially affected TV-6 stations.

Jensen, Elizabeth. "Syracuse Students Running Their Own FM Operation," Electronic Media, February 7, 1985, p.28. A profile on WJPZ-FM, the first FM station in the country to be owned and operated entirely by students.

Rubinstein, Betsy. "Political Org's Barred from CSG's," NFCB Newsletter, February 1985, pp.4-5. A discussion of CPB's ruling that stations controlled and operated by political organizations are now ineligible for Community Service Grants.

Instructional Television Fixed Service

(Continued from page 2)

Many issues will remain undecided until the final rules are out. Some say rules will not be released until May 1985. For example:

- The FCC is thinking about limiting the ITFS service area to a 15-mile radius in order to prevent interference. Currently, ITFS channels can broadcast within a 50-mile radius. Universities located in rural settings are fighting this possible ruling; they often need those 50 miles in order to reach their proposed receive sites.
- The FCC has been asked in comments to give preference to local ITFS applicants over nationally-based applicants. For the education community this is a difficult issue in light of PBS's planned National Narrowcast Service. (Utilizing the ITFS spectrum, PBS plans to provide a nationwide TV system that will deliver video-based college-level courses. The system currently is being tested in 12 cities).
- In its interim ruling the FCC required ITFS operators to provide 15 hours of "formal educational programming" but did not define that term. Some factions believe that should mean for-credit programs only, while others contend that noncredit programs should be possible also.

The National Association of State Universities and Land-Grant Colleges is planning a Washington conference on ITFS at the end of May. It will be open to all educators interested in regulatory and legal issues, technical issues, and programming possibilities for ITFS.

Contact: Sue Fratkin, NASULGC, 202/293-7120.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Alaskan Low Power Network Reaches Remote Villages with Ed Programming

The LearnAlaska Network boasts the largest 24-hour-a-day, year-round low power television network in the United States. Currently, 230 stations are in operation. Eighteen more are planned, but license processing is tied up at the FCC.

The network is owned by the State of Alaska, operated by the University of Alaska, and programmed by both the university and the Alaska Department of Education. Its goal is to increase access to educational opportunity for people who live in the small communities of rural Alaska. The state mandates that all communities with 25 or more permanent residents receive the low power Instructional Telecommunications Channel.

Twenty telecourses are currently offered for college credit through the network. Courses are selected by a consortium of postsecondary institutions served by the network. Both taped and live programs are broadcast. The live programming is originated from the University of Alaska in Anchorage and Kotzebue.

All programs are transmitted by the university to the Alaskan satellite, ComSat IV, picked up by dishes in surrounding communities, then retransmitted via low power to homes in remote sites.

Telecourse students can interact with their instructors through Learn Alaska's audioconferencing network that has been in operation for three years. In fall 1985, the network will launch a teletext system to supplement their on-going audioconferences.

Contact: Bill McCaughan, University of Alaska-Anchorage, 907/786-1922.

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Johnson, Glenn Ross. "Interactive Two-Way Television: Revisited," Journal of Educational Technology Systems, Vol.13, Iss.3, pp.153-58. A presentation of data collected on the use of two-way interactive television versus standard classroom instruction.

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Articles

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rule-making aimed at implementing the Cable Communications Policy Act of 1984.

McManus, Kevin. "Wanna Bet? Turn on TV, Pick up Phone," Advertising Age, February 18, 1985, p.72. A description of the off-track betting services now offered on some cable systems around the country.

"Minimal Cable Usage Reported," Video Manager, February 1985, pp.1,30. A report on a Knowledge Industry survey on the use of cable for program distribution by corporate and educational institutions.

"Suburban Cablevision's LO Documentary Wins Top Columbia U. Journalism Honor," CableVision, January 28, 1985, p.11. An announcement of the first cable entry to win the duPont/Columbia University Journalism award -- a local origination program.

"TLC Adds Programs on Taxes, Parenting," Multichannel News, February 18, 1985, p.22. A description of three specials and two new series to be shown on The Learning Channel.

Satellites

Articles

"Hill Cautious on Authorizing Competition to Intelsat," Broadcasting, February 25, 1985, pp.61-64. A report on the objections the Reagan administration met in presenting its support for separate international satellite systems before the House of Representatives.

"A New Kind of Star Wars: The Battle over C-band and Ku-band Direct," Broadcasting, February 18, 1985, pp.44-45. A look at the competition for control of the satellite broadcasting business in the U.S.

"Teleport Group Holds Maiden Meeting," Broadcasting, February 4, 1985, pp.60-61. A report on teleports -- satellite transmission/reception facilities that provide multiple services (i.e., video, voice, data, etc.) -- and a meeting of the newly-formed association that hopes to promote their use.

Teleconferencing

Programs

Teleconferencing Market Survey Released

The Center for Interactive Programs, University of Wisconsin-Extension, has released some of the findings of its massive two-year study of the North American teleconferencing market. The study reports that the market for teleconferencing equipment will grow at an annual rate of 54 percent between now and the end of the decade. Lorne Parker, director of CIP, attributed the accelerating growth to the increasing popularity of videoconferencing among corporations, government agencies, and educational institutions.

Parker explained that one of the fastest growing segments is the "ad hoc" videoconference. This market produces live programs distributed to hotels, convention centers, and offices around the country and is increasing at the rate of 35-45 percent annually.

More than 200 experienced teleconferencing organizations were surveyed. CIP found that:

- 69 percent have audio rooms,
- 31 percent have audiographic or telewriting equipment,
- 29 percent had two-way video, and
- 23 percent had freeze-frame equipment.

The study is available in five modules from the Center. Contact: Chris Olgren, CIP, 608/262-4554.

Articles

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"Is Ka-band Coming? Views on Need, Use Vary," Telcoms, February 1985, pp.9-10. A look at the Ka-band: Does video-conferencing need the additional transponders or not?

"Satellite Delivery Is Next Tool for High-Tech College," Telcoms, February 1985, pp.8-9. A report on the National Technological University, an institution that delivers instruction via satellite to students across the country.

Videodisc

Programs

Innovative Science Lessons to Be Archived on Videodisc

When Mary Budd Rowe, University of Florida-Gainesville researcher and critic of science textbooks, set out to make innovative science curriculum materials more accessible to educators, she originally thought of putting the information on the Source, or some other on-line information system. But then she looked at the diverse materials she wanted to share -- filmstrips, movies, board games, and textbooks -- and decided that videodiscs would be the perfect technology to store the information.

Innovative science-teaching materials (projects funded chiefly by the National Science Foundation) are currently being put on videodisc to archive and accumulate this information into one place. About half a million pages of material is currently being processed. Rowe sees teacher training applications and curriculum development uses for the discs.

Rowe will work during the next two years to develop a prototype disc in hopes of getting more funding for further information storage. Currently, she is working on a digitation problem in hopes of finding a way to avoid the slow and costly task of keyboard entry of printed materials.

Contact: Mary Budd Rowe, University of Florida-Gainesville, 904/392-0761.

Articles

"British Job Seekers Get Help from Videodiscs," E&ITV, February 1985, p. 6. A description of the videodisc programs now being tested in Job Centres in Great Britain that give information on job hunting and special services for the unemployed and disabled.

Videotape

Articles

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Voland, Gerard. "Multiple Benefits of Videotaping for Teaching Skills in Communication," Journal of Educational Technology Systems, Vol.13, Iss.3, pp. 159-63. An exploration of the myriad technological advantages of videotaping presentations.

Videotex /Teletext

Articles

"NBC Discontinues Teletext," InfoWorld, February 11, 1985, p.21. A report on NBC's decision to drop its teletext service.

Spillman, Susan. "Viewtron Cuts Monthly Price Again," Advertising Age, February 25, 1985, p.58. An announcement of Knight-Ridder's decision to cut the monthly rates of its Miami videotex service to encourage more subscriptions.

"Teletext Gets Boost with Taft-SSS Venture," Broadcasting, February 4, 1985, p.85. A discussion of the Taft Broadcasting and Satellite Syndicated Systems joint venture, Electra, that will be offered to cable and broadcast stations free of charge.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

NSF Funds Supercomputer Centers on Four University Campuses

The National Science Foundation recently announced it will spend $200 million to create supercomputer centers at four universities in an effort to make supercomputing power more available to educational researchers. (Today's supercomputers cost from $5 million to $20 million each and can make up to 400 million calculations a second. Their speed and storage capacity make possible complex problems like designing computer chips and nuclear power plants.)

The centers will be located at Cornell University, Princeton University, the University of Illinois, and the University of California at San Diego. The Cornell and Illinois centers will be operated by those two institutions alone. The Princeton and San Diego installations will be operated by consortia of area universities. These consortium-run facilities will build high-speed communications networks to connect the member universities. Researchers at any member institution will be able to use the network to gain access to the supercomputer from terminals at their desks. Cornell will build a prototype supercomputer that will incorporate an IBM mainframe and at least four scientific processors. The Illinois Supercomputer Center will contain a Cray XMP a parallel-processor computer, to be delivered in June.

Time on the computers will be allocated both by NSF and by the institutions involved in the centers. The foundation will allocate over half of the computational time to researchers through a peer-review process. The remaining time is available to the institutions where the centers are housed.

Contact: Jim Bottom, NSF, 202/357-9776.

"An Apple for the Teacher" Now Has New Meaning

Apple Computer has given new meaning to "an apple for the teacher" with a special discount purchase program for full-time teachers and professional employees of educational institutions. The program will allow educators a one-time opportunity to buy one of the following Apple systems at a 25% or more discount:

- one Apple IIe personal computer with 64K of internal memory, one Disk II floppy disk drive, one Monitor II display and an interface card that provides 80-column display capability;
- one Apple IIe personal computer with 64K of memory, two Disk II floppy disk drives, one Monitor II display and an interface card that provides both 80-column display capability, and an additional 64K of memory;
- one Apple IIc personal computer, one Monitor IIc display, and a monitor stand; or
- one MacIntosh computers with 128K of memory.

Educators interested in further information about the discount program can request an order kit. Contact: "An Apple for the Teacher," P.O. Box 306, 125 Main Street, Half Moon Bay, CA 94019.

Articles

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Blaschke, Charles. "Technology Trends in Special Education," T.H.E. Journal, February 1985, pp.73-77. A discussion of the potential use of microcomputers for special education.

Bolt, Richard. "Conversing with Computers," Technology Review, February/March 1985, pp.34-43. A look at computers that are learning how to speak in normal conservations.

"Bulletin Board Can Save Lives," InfoWorld, February 25, 1985, pp.20-21. A report on the National Cancer Institute's new nationwide cancer diagnostic database.

"EPIE Now on CompuServe," Electronic Education, January 1985, p.38. An announcement of the Educational Products Information Exchange's new information service on educational computer products now on CompuServe.

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Gilbert, Steven. "Financing Student Acquisition of Microcomputers," EDUCOM Bulletin, Fall 1984, pp.14-18. A description of the currently dominant model for financing student acquisition of microcomputers.

"Iowa Tests Computer Literacy," Electronic Education, January 1985, p.35. A report on Iowa State University's new Standardized Test of Computer Literacy.

"Issues in Building an Information Technology Strategy," EDUCOM Bulletin, Fall 1984, pp.4-13. A discussion of the important issues in computing, with a set of guidelines for planning to meet those issues.

"Micros in Schools at Issue," InfoWorld, February 25, 1985, p.22. A report on the findings that will be delivered by the National Task Force on Educational Technology to the Department of Education.

Meredith, Dennis. "Caltech Lets a Thousand Flowers Bloom," Instructional Innovator, January 1985, pp.10,14-16. A look at the California Institute of Technology multimillion-dollar effort in educational computing.

Moore, Margaret. "Preparing Teachers to Teach about Computers and Computing," AEDS Monitor, November/December 1984, pp.19-22. A discussion of guidelines the Northwest Council for Computer Education has suggested for developing teacher training programs for computer competencies.

Owen, Richard. "Soviets Aim to Put Desk-Top Computers into All of Nation's Schools and Colleges," Chronicle of Higher Education, February 6, 1985, pp. 35-36. A look at the Soviet Union's campaign to introduce microcomputers into thier classrooms.

"Terminals Among the Stacks," Time, February 25, 1985, pp.92-93. A description of the New York Public Library's new catalog system that is now totally computerized.

Winkler, Karen. "A Leading Computer Scientist Bemoans Our 'Love Affair' with the Machine," Chronicle of Higher Education, February 6, 1985, p.5. A report on one computer scientist's concern that computers are setting research agendas.

Interactive

Programs

College Lab Experiments Simulated Via Interactive Video

Laboratory experiments that may be too expensive, too dangerous, or too impractical in traditional college settings have been simulated on interactive videodisc by the University of Nebraska-Lincoln's Videodisc Design/ Production Group. Two conventional lab science lessons in physics, chemistry, and biology have been developed by the group through the Interactive Videodisc Science Instruction Project, funded by Annenberg/CPB.

Each lesson includes one side of a laser optical videodisc, a computer program on diskette, an instructor's guide, and printed student materials. These interactive programs are designed for use with the IBM PC, TRS 80, and the Apple II computers.

According to Project Director Jack McBride, "The six lessons are independent units that use the unique interaction of the videodisc with a microcomputer for responsive, student-paced instruction. Students are provided with guidance in selection of variables, interpreting data, and the formulation of further hypotheses during experiments.

Each lesson requires an average of three hours of student work, equivalent to one week's laboratory instruction. The project was designed to give students greater access to science lab instruction and at the same time be cost efficient for the college.

Lessons have been field-tested at the University of California at Berkeley and Los Angeles, the University of Nebraska-Lincoln, Kansas State University, the University of Wisconsin-Madison, Emporia State University in Kansas, Illinois Central Community College, and Taft Preparatory School in Connecticut. The test found that students:

- learned as well or better than those students in traditional labs;
- could perform more simulations;
- could explore more varieties of demonstrations; and
- could work at their own pace.

The lessons are available now through the Great Plains National Instructional Television Library. The cost is $425 for Level III play including laser videodisc, computer-controlled software and print materials. Contact: Jack McBride, Nebraska ETV Network, 402/472-3611.

Articles

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"Interactive Training: Versatile Learning," Video Systems, February 1985, pp. 70-71. A discussion of the Wilson Learning Corp. interactive video training and a list of other corporations currently using interactive video.

Silverstein, Jeffrey. "Campbell Moses' Commandments for Designing an Effective Interactive Videodisc," Videodisc Monitor, February 1985, p.10. Advise for interactive video design from an innovator in the application of videodisc to medical education.

Books

Interactive Video.
Eric Parsloe. The Videodisc Monitor, P.O. Box 26, Falls Church, VA 22046. 1983. 290pp. $19.95.

A textbook that provides a comprehensive introduction to the theory, application, and production of interactive videodisc and videotape programs.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Research Proceeds on Telecommunication Use in Higher Education

The Research Triangle Insitute of North Carolina will examine the educational use of video, audio, and computer technologies in postsecondary institutions nationwide. This Higher Education Utilization Study (HEUS 85) is part of a 14-year project funded by CPB and the National Center for Education Statistics.

The study will build on a 1984 pretest and a previous study of television use for learning by colleges and universities. Results of the study are expected in Fall 1985.

A companion project to HEUS 85, also funded by CPB, is the Faculty Acceptance of Technology. This study, to be conducted by Learning and Technology Services in Welches, Ore. will look at the instructional problems higher education faculty face, how information technologies can provide solutions, and what factors discourage faculty from making more extensive and effective use of technology-based resources. The project also will explore how technological resources can be designed or adapted to meet faculty needs. Results are expected in December 1985.

Contact: Laura Ginsberg, CPB, 202/955-5162.

Articles

"Cable, Telephone, Utility Companies Launch TranstexT," CableVision, January 28, 1985, p.25. A description of a new hybrid system, TranstexT, now being installed in an Atlanta suburb that delivers information via one-way cable lines and returns information over telephone lines.

"Computerphones: The Heavyweights Could Start Bells Ringing," Business Week, March 4, 1985, pp.110-11. A report on the move into the computerphone market by Hewlett-Packard, Wang Laboratories, and AT&T Information System.

DeVelde, Everett and Jenny, Fredrick. "Higher Education Sows Its Garden of New Technology: Grove City College Students Receive T.L.C.," Instructional Innovator, January 1985, pp.13,16. A profile of Grove City College's new Technological Learning Center that offers state-of-the-art computing facilities and an interactive video system.

Lavers, Daphne. "NABU -- Rising from the Ashes," Cable Communications, January 1985, pp.19-21. An update on the NABU Network Corporation and its effort to refinance after shutting down its Canadian and U.S. operations.

Rice, John. "Stereo TV: Ripple or Wave?" Videography, February 1985, pp.76-79. A discussion of the future for stereo television in the consumer marketplace.

"Schooling for Survival," Time, February 11, 1985, pp.74-75. A report on findings by the Carnegie Foundation for the Advancement of Teaching on the move by U.S. corporations into training and education.

Weinstock, Neil. "Up from the Lower End," Video Systems, February 1985, pp.24-26. A look at how the combination of the personal computer and broadcast graphics has led to cheaper special effects with higher resolution.

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Time. Time, Inc., Time & Life Building, Rockefeller Center, New York, NY 10020.
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TELESCAN

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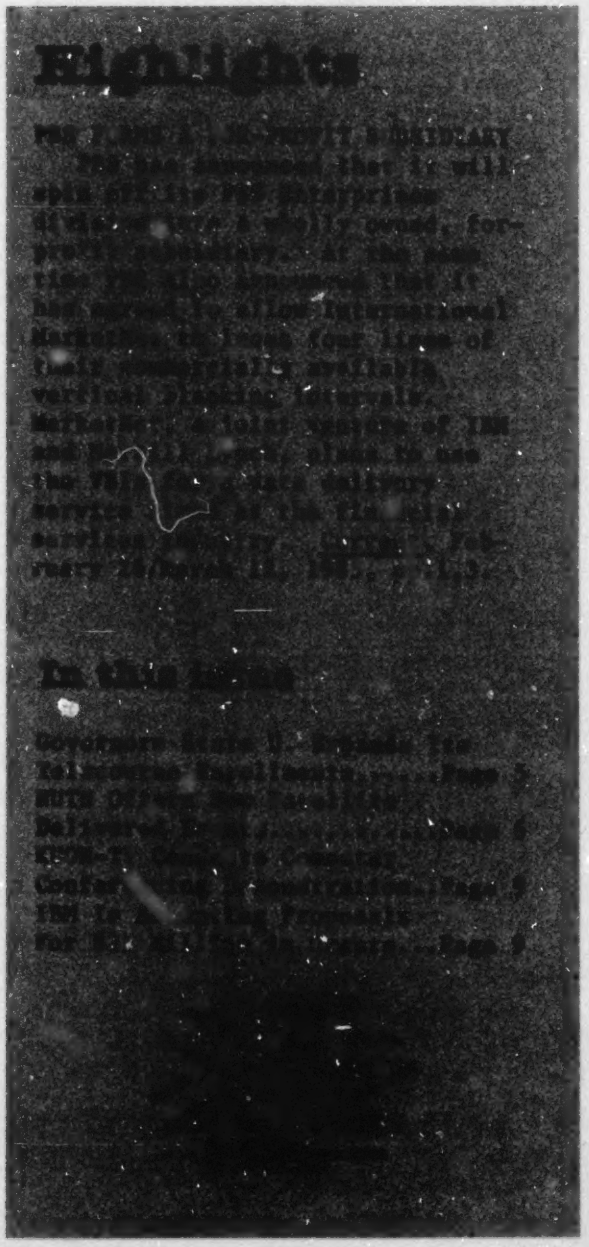
The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 9



Focus On:

New Distribution Systems

by Joan Gudgel

Many new avenues for telecommunication distribution have opened up in the past five years. The FCC has created the low power TV service, multichannel multipont distribution service, and most recently added 684 new FM radio allocations. Cable television construction has also started in most major urban areas in the country.

The FCC hopes that this plethora of new distribution services will encourage a competitive marketplace that will in turn generate diversified programming. But is this happening? Will educational programming increase with the increase of distribution services? How have educational institutions fared in the scramble for new services?

Low Power Television

In September 1980, the FCC issued a Notice of Proposed Rulemaking that sought to authorize a new broadcast service consisting of very low powered television stations. In adopting the service in 1982, the FCC estimated as many as 4,000 new stations could be created throughout the U.S. The low power service was originally conceived by the FCC in the late 1970s as a low cost TV service whereby local groups, minorities, women, and nonprofit organizations could gain ownership of broadcast mediums.

(Continued on page 2)

(Continued from page 1)

But what happened was another story. Large corporations such as Sears Roebuck and Federal Express saw low power as an opportunity to establish nationwide TV networks and began mass filings for stations at the FCC. Faced with thousands of low power applications, the understaffed FCC implemented a lottery system to select among the many competing applications. Once the lottery was finally in place and applications were being processed, minority ownership was the only preference that remained in choosing among applications.

Currently 295 LPTV stations are licensed (230 are located in Alaska as part of the LearnAlaska project). The Commission has granted construction permits for another 440; educational institutions were selected merely by chance of the lottery draw.

Contact: Alan Moskowitz, FCC, 202/632-3894.

FM Radio

Similarly, the FCC created additional FM radio stations in December 1984. Docket 80-90 opened up 684 assignments on the FM band in hopes of bringing diversified programming to more communities throughout the U.S.

In their comments on the rulemaking, CPB requested that the FCC set aside channels for noncommercial/educational service in communities with populations over 100,000. If the Commission decided not to reserve these channels, CPB urged the FCC to give noncommercial applicants preference for the assignments.

In March, the FCC detailed how it will go about accepting applications for the new FM stations. Applications will be chosen through filing windows that abandon traditional cut-off procedures and therefore shorten time allowed for applying for channels. And current daytime AM broadcasters will be the only group to get substantial preferences for the new stations.

Contact: Pat Watkins, National Federation of Community Broadcasters, 202/797-8911.

MMDS

Education lost eight channels of its 28 channel ITFS assignments to the new multichannel multipoint distribution service last May. All ITFS channels that had been authorized or applied for as of May 25, 1983, were grandfathered. No further ITFS applications will be accepted on the eight reallocated channels.

Since the FCC also ruled that ITFS licenses will be able to lease "excess" capacity on their channels for profit, a slew of "quasi" educational organizations have filed for licenses. Only final FCC rulemaking will tell if these applications will be allowed and if the ITFS spectrum will continue to be preserved for educational purposes.

Contact: Stu Badell, FCC, 202/254-7664.

Cable Television

Even cable TV, once thought to be the savior of alternative television with 108-channel capacity, institutional networks, and local access channels, is not living up to the hopes of the telecommunications industry. Caught in the financial crunch of constructing cable systems in major urban areas, cable operators are abandoning their innovative programming projects.

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The Center for Learning and Telecommunications publishes Telescan on a monthly basis to assist academic decision-makers in discovering the programs, projects, research, and other initiatives that effectively utilize technology in postsecondary settings.

Marilyn Kressel, Director
Joan Gudgel, Communications Manager
Linda Pratt, Secretary

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Audiotape

Programs

A Sound Demonstration

Does adding an audio component to a correspondence course enhance its value as a teaching tool? An experimental project undertaken by the Committee on Institutional Cooperation in association with the University of Wisconsin and the University of Minnesota may soon provide some answers to that question.

Three curriculum areas have been identified to test the question. Introductory Sociology and Introductory Psychology are currently offered as correspondence courses by four participating CIC institutions. Thirteen half-hour audio components in each of these subjects were produced by the University of Wisconsin and the University of Minnesota respectively. These audio components will be incorporated into the already-existing correspondence courses and evaluated for their effectiveness.

In addition, a totally new correspondence course, on American History from the Colonial period to the Civil War, is being created by the University of Wisconsin. It was designed from the beginning to include 13 audio components. It, too, will be subject to rigorous testing for effectiveness by a number of institutions.

Test results will be available through Annenberg/CPB Project this summer. Contact: The Annenberg/CPB Project, 202/955-5241.

Radio

Articles

Desruisseaux, Paul. "5-Year Plan for National Public Radio Aims to Achieve Financial Stability," Chronicle of Higher Education, March 13, 1985, p.13. A discussion of NPR's new five-year plan and reactions of university radio personnel.

"Lawyer Discusses FM-TV6 Issue," Radio World, March 15, 1985, p.2. An interview with CPB Counsel Susan Dillion concerning the legal issues surrounding the FM-TV6 disputes.

Leddy, Craig. "FCC Begins Taking New FM Applications," Electronic Media, March 21, 1985, p.4. A report on the decision by the FCC to open the application process for 689 new FM radio stations and to give preference to applications by AM daytime-only broadcasters.

"Possible New Tilt to Radio Satellite Fund Orbit," Current, March 12-26, 1985, pp.1,8. A discussion of the current deluge of free satellite programs available through satellite and the dilemma of NPR's Satellite Program Development Fund in funding more programming for satellite distribution.

Teleconferencing

Articles

"Utah System Saves Wear and Tear, Stretches Faculty," Telcoms, March 1985, pp.6-7. A profile of Utah State University's freeze-frame, audio-conferencing system.

Telephone

Articles

Gallagher, Daniel. "The AT&T Settlement: An Unsettled View," Business Communication Review, March/April 1985, pp.13-18. An exploration into AT&T's reasoning behind accepting the divestiture settlement.

"Stanford Signs Three Agreements with Northern Telecom," Communications News, March 1985, p.13. A description of the agreement between Stanford University and Northern Telecom to install a campus-wide fiber optic telecom network.

"Universities Install New Telecommunications Systems on Campuses Across the Country," Communications News, April 1985, p.15. A report on the new telephone and data systems being installed at University of California at San Diego, Irvine, Santa Cruz, and at California State and Northern Illinois University.

New Distribution

(Continued from page 2)

The first to go -- institutional networks. Educational institutions in Dallas, Pittsburgh, and Cincinnati were promised dedicated coax networks to link their college campuses, schools, and libraries. These networks never materialized. Cable operator Warner Amex has pleaded insufficient funds to build the I-Nets at this time.

Media General Cable recently filed a petition to the FCC to relieve it of more than $10 million in obligations to its Fairfax County, Va., cablesystem. The major issue in dispute is the construction of the institutional network that would link the public schools.

Access channel funding was the second innovation to go. In Minneapolis, Minn., cable operator Rogers Cablesystems gave $800,000 for public, government, and educational access in 1985. Next year, they plan to cut that to $500,000. Instead of creating five access studios as promised in the franchise agreement, Rogers now wants to build one large centralized studio. Several access studios in Rogers systems outside the Twin Cities have already shut down.

TCI, the cable operator in Miami, Fla., petitioned the FCC last fall to consider their access funding as part of the city's franchise fees. The FCC ruled that since access serves a minority interest, a cable company cannot be forced to pay for its operation regardless of the terms of a franchise agreement. The city of Miami has filed a petition for reconsideration; the action is still pending.

The number of channels promised for access has been reduced in Dallas, Pittsburgh, and Cincinnati. Funding has been delayed or reduced in Atlanta, Ga.; Boston, Mass.; and Portland, Ore.

Contact: Sue Buske, National Federation of Local Cable Programmers, 202/544-7272.

Other Considerations

Not all the news is bleak for educational programming:

- PBS was given a one-year extension for 76 of its 102 ITFS construction permits.
- The Learning Channel continues to reach more and more cable subscribers and expand its programming.
- The FCC and Congress continue to explore alternative revenue sources for public broadcasting, including UHF/VHF swaps, enhanced underwriting, and leasing of ITFS excess time.

However, the FCC is telling the education community loud and clear that no special preference will be given to non-commercial/educational programmers. If educational institutions want to take advantage of these new telecommunication delivery systems, they must compete and find funding on their own. And if they don't compete, the new avenues for telecommunication distribution may be closed to educators forever.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Governors State University
Successfully Markets Telecourses

Since Governors State University in suburban Chicago began offering telecourses in 1981, enrollment has grown from 35 to over 400 student registrations per trimester. A recent student survey showed that 77% of the GSU students are first-time telecourse users, and that 95% of the students that enroll complete the courses.

Joyce Newman, telecourse coordinator at GSU, attributed their success to marketing. "We have spent a great deal of effort trying to conceive of every possible marketing technique in order to get students' attention," Newman said.

GSU reaches the public through newspaper articles and paid advertisements, flyers in the local cable subscriber brochures, and target mail campaigns. In addition, GSU has worked to make telecourses readily available to the area residents by expanding the choice of viewing times. Currently, they use two public broadcasting channels, two cable channels that run 6 am to 1 am, 7 days a week, and closed-circuit viewing at libraries and other locations.

A strong emphasis is placed on maintaining contact between telecourse students and campus faculty. GSU provides print materials -- a telecourse newsletter, and a telecourse student survival handbook with study tips and time management techniques to assist first-time telecourse users. Surveys are also taken of the telecourse students to determine their needs and habits.

Contact: Joyce Newman, GSU, 312/964-3100.

Articles

"CPB's Quota 'Experiment'," The Independent, March 1985, pp.5-6. A discussion of CPB's decision to assign four seats on the nine-member Open Solicitation panel to station representatives.

"FCC Commissioners Verbatim on VHF/UHF Exchange," Current, February 26/March 12, 1985, pp.7,10. A transcript of the February 14th Commission meeting where the FCC proposed rulemaking regarding channel swapping.

Mastroberardino, Joy. "PBS Seeks 16.4% More from Members," Current, February 26/March 12, 1985, pp.1,4. A description of PBS's draft budget for FY 1986 that requires a 16.4% increase in general assessment fees.

Tajima, Renee. "Low Power Victory on Distant Signal Ruling," LPTV Currents, January/Feburary 1985, pp.1,7. A report on the United States Copyright Office's recision of its earlier ruling that low power stations be classified as "distant" signals for carriage by cable stations.

Cable Television

Articles

"American Cablesystems Offers Educational PPV," CableVision, March 4, 1985, p.25. A announcement of American Cablesystem's launch of a pay-per-view college course, "The Computer Program," a 10-week lecture series.

Gelman, Morrie and Leddy, Craig. "Court Cable Bidding Rules Violate Rights," Electronic Media, pp.1,38. A report on a Los Angeles federal circuit court decision that ruled that the city's cable franchising process violated First Amendment rights.

"PEN Closes Down; Santa Fe to Follow," CableVision, February 25, 1985, p.14. A discussion of the recent termination of two cable programming services, Professional Education Network and Santa Fe Communications.

Ziegler, Peggy. "A&E Sets Telecasts of Local Programs," Multichannel News, March 11, 1985, p.10. A description of the Arts & Entertainment network's new national push to acquire local cable and cultural programs for distribution over its network.

Satellites

Programs

SCOLA Promotes the Use of Satellite Broadcasts for Instruction

SCOLA, Satellite Communications for Learning International, is an organization of educators, dealers/manufacturers, and individuals supporting the use of satellite technology for instructional use. Currently 700 schools strong, SCOLA has developed and is marketing a Molniya Tracking System. The system is capable of tracking and receiving live Russian Television and Radio Moscow.

It can follow the four elliptically orbiting Russian MOLNIYA satellites that broadcast approximately six hours during an apogee period over the Hudson Bay. An Apple IIe computer positions a 13-foot aluminum dish to pick up the satellite signal at turn on, then slowly moves the antenna to pick up the strongest posssible signal.

Creighton University's telecommunications department, which under the direction of Lee Lubbers has been offering Russian television to students as an educational resource since 1982, is now marketing the SCOLA MOLNIYA Tracking System. SCOLA has been approached by Cox Cable of Omaha, Neb. to use their system together with various Spanish, French, and Commline systems to transmit 24 hours of foreign language programming over their cable-systems. The organization plans to hold a Satellite Campus System Workshop/Conference at Creighton in May.

Contact: Lee Lubbers, Creighton University, 402/280-4063.

Articles

"Sat Transmission Extends Reach of Educational TV," Communications News, April 1985, p.25. An announcement of the new educational television broadcasts by Canadian satellite Anik C3.

Smalley, James. "Satellite Communications for the Fire Protection Professional," Fire Journal, January 1985, p.34-37,72. A description of the National Fire Protection Association's satellite broadcasting system that provides fire service training nationwide.

Smith, Ilene. "Aussat Outback," Satellite Communications, March 1985, p.42. A look at the three-satellite Aussat system that will provide the Australian outback with direct broadcast satellite service.

Teleconferencing

Programs

NUTN Enters Venture with College Satellite Network

The National University Teleconfer-

encing Network (NUTN) will offer large-screen, interactive satellite events to colleges and universities in a joint venture with the College Satellite Network, a distribution company based in Dallas, Tx. The first event was demonstrated April 17. The program entitled "The Congress," was presented via satellite through the joint efforts of NUTN, CSN, Films Inc., and PBS affiliate WETA-TV in Washington, D.C.

"The Congress" brought together representatives from both houses of Congress as well as critics, journalists, lobbyists, and academics to address controversial issues facing the 99th Congress. Fifteen colleges and univercities participated as pilot receive sites. At these sites, students were able to ask questions and react to the national presentation as well as participate in a local version of the same program.

NUTN plans to offer a program on the Presidency in October, "The Great Directors" is scheduled for mid-November, and a live musical entertainment event is slated for December.

Contact: Marie Oberle, NUTN, 405/624-5191.

Articles

"Comsat and Black Entertainment TV Start Educational Net," Telcoms, March 1985, p.14. An announcement of the launch of the Black College Educational Network, a one-way video, two-way audio telelecture network, currently serving nine black colleges and universities.

"Health Care Field Seeking More Defined Applications," Telcoms, March 1985, pp. 4-5. An interview with Bruce Clark of the Association of Western Hospitals concerning the use of teleconferencing in health care settings.

"NTU Plans University/Industry Network," TeleSpan, March 15, 1985, pp.5-6. A report on the plans by the National Technologies University to broadcast 12 hours of educational programming per day to engineering company worksites, beginning in September 1985.

"SatServ to Train Army Personnel," PSSC Newsletter, January/February 1985, p.4. An announcement of an agreement between Services by Satellite and Comsat General to establish a nationwide video teletraining network for the U.S. Army School of the Air.

Videotape

Articles

Grosslight, Jane. "Video Instruction and a Welcomed Change in Continuing Education," T.H.E. Journal, March 1985, pp.87-89. A discussion of the use of video instruction in a series of special professional development programs by Florida State University's Center for Professional Development and Public Service.

Stephen, K D. "The Video-taped Course Revolution," IEE Proceedings, December 1984, pp.739-44. A look at the use of videotaped course material for the education of electrical and electronic engineers in th U.S. and England.

Books

Sinofsky, Esther. Off-Air Videotaping in Education: Copyright Issues, Decisions, Implications. R.R. Bowker Co., P.O. Box 1807, Ann Arbor, MI 48106. 1984. 163pp. $27.50.

A description of the history and controversy surrounding the use of television programs in the classroom, including a glossary of relevant legal terms, a set of frequently asked questions and their answers, plus a bibliography.

Videotex / Teletext

Articles

"Network Guides Users to San Francisco," Advertising Age, March 7, 1984, pp.36-37. A desciption of Bay Area Teleguide, a 175-terminal video network that provides tourist information in public places throughout San Francisco.

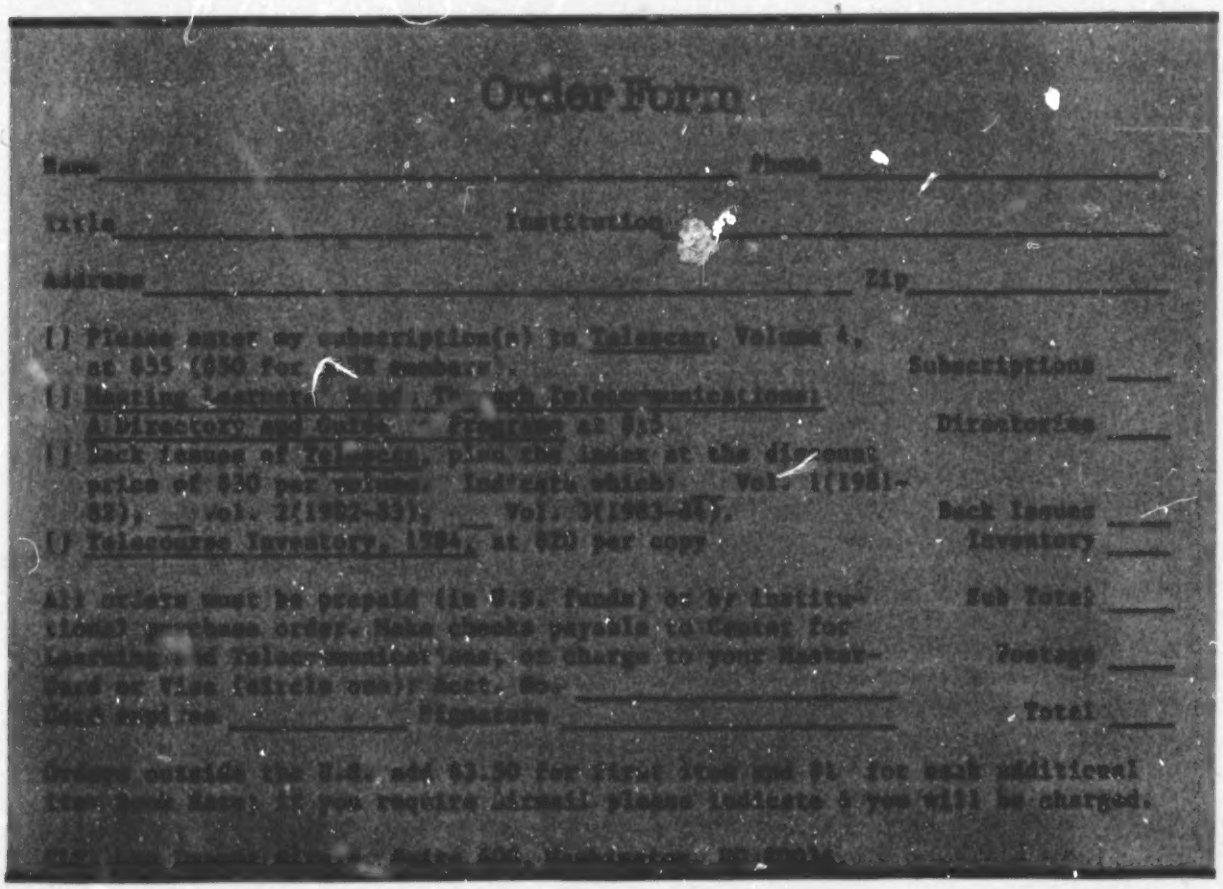
Stothers, Jennifer and Dietrich, Mark. "A Perspective on NAPLPS and Its Impact on the Development of Videotex in North America," Videodisc and Optical Disk, January/February 1985, pp.52-61. An examination of the North American Presentation Level Protocol Syntax (NAPLPS) standard recently adopted by North American standards organizations and its impact on the videotex industry in North America.

"Teletext News to Threaten Evening Papers, TV Newscasts," Videodisc and Optical Disk, January/February 1985, p. 15. A report on findings by the journal, VideoPrint, that predicts the U.S. teletext market to be worth some $500 million annually by 1994

Books

The Architecture of Videotex Systems. Jan Gecsei. Prentice-Hall, Inc., Englewood Cliffs, NJ 07632. 336pp. 1983. $33.95.

A well-written technical discussion of videotex systems. It covers information about the GATEWAY design, computer systems and coding procedures, and distributed data processing.



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COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Programs

KUON to Investigate Computer Conferencing

Public broadcasting stations will soon be exchanging information via computers with the help of a $75,000 computer conferencing contract from CPB. Public television station KUON-TV of the University of Nebraska-Lincoln will initiate an eight-month demonstration project investigating the potential of computer conferencing and other electronic communication systems.

The demonstration will include a minimum of 15 computer conferences on topics ranging from traditional broadcasting issues such as administration, audience research, and public information, to new technologies such as interactive video and electronic text.

More than 50 public broadcasting organizations have been invited to participate in the demonstration. Participants will use electronic bulletin boards and electronic mail features available on DIALCOM, an online database service headquartered in Silver Spring, Md.

"Developing an effective computer conferencing system will allow public broadcasting stations to significantly reduce the money and time spent attending traditional conferences around the country," explains KUON's manager of Educational Telecommunications Lee Rockwell. "If the project is successful, it may lead to an ongoing, self-supporting computer conferencing system within public broadcasting."

Contact: Scott Leigh, KUON, 402/472-3611.

IBM Offering $25 Million in Grants for University Competition

IBM Corp. has invited proposals from colleges and universities to compete for $25 million in grants. The grant program is designed to help universities initiate new research programs and develop graduate-level curricula in the materials and processing sciences. Postsecondary institutions are eligible for 12 grants of up to $1 million in cash and $1 million in IBM equipment.

Proposals should focus on the properties, composition, structure, processing, and application of materials for use in the information processing industry. Grants will help initiate research, attract outstanding faculty members, and develop new graduate courses in the materials and processing sciences.

Criteria for selecting the award winners include the quality of both the proposed research and existing programs in the field of processing sciences; participating faculty; and the university's commitment to the program.

Twelve universities will be selected by March 1986. Planning grants of $5,000 to $12,000 will be awarded to 30 institutions selected from those submitting preliminary proposals to defray costs involved in developing detailed final proposals.

Contact: Charles Bowen, IBM, 914/765-1900.

Articles

Caporael, Linnda. "College Students' Computer Use," Journal of Higher Education, March/April 1985, pp.172-88. An examination of a study into the time allocation associated with owning a personal computer, how students use computers, and any educational or

social impacts that result.

"Computer Copyright Law: An Emerging Form of Protection for Object Code Software after Apple v. Franklin," Computer/Law Journal, Fall 1984, pp. 233-55. A discussion of current software copyright protection laws.

"Computers in the Courtroom: Using Computer Diagnosis as Expert Opinion," Computer/Law Journal, Fall 1984, pp. 217-31. A look at the dramatic increase in computer use for medical diagnosis and its current legal status in a court of law.

"Computing and the Liberal Arts Institutions: Three Views," EDUCOM Bulletin, Winter 1984, pp.8-16. Three essays presented at EDUCOM '84 that raise important questions for liberal arts institutions coping with the introduction of computers.

Haigh, Roger. "Planning for Computer Literacy," Journal of Higher Education, March/April 1985, pp.161-71. An exploration into a planning framework whereby a college can determine what its students need to know about computers in order to be "literate."

Hall, Keith and Sherman, Sallie. "Computer Applications in Education and Training: A Curriculum Development Model and the Curriculum," Journal of Computer-Based Instruction, Winter 1985, 1985, pp.23-25. A description of the development of a comprehensive university curriculum throughout the College of Education at Ohio State University.

Hoffer, Bates and Semmes, Pat. "Haiku and Nim: Logo in the Language Arts," AEDS Monitor, January/February 1985, pp.19-22. A presentation and analysis of an educational experiment in which freshman college students learned and used the software program LOGO to produce better programs for generating Japanese haiku.

Lerman, Steven. "Project Athena at MIT," EDUCOM Bulletin, Winter 1984, pp. 5-7. A profile on Project Athena, an educational project that explores the value of advanced networked graphics workstations.

Talab, Rosemary. "Look Both Ways Before You Copy Software," Tech Trends, February/March 1985, pp.28-30. Answers to some commonly asked questions about educators' legal responsibilities concerning software copyright.

Interactive

Articles

Fuller, Robert. "From Dragon's Lair to the Tacoma Bridge," Videodisc & Optical Disk, January/February 1985, pp.37-51. A discussion of four interactive videodisc lessons and their use of challenge, curiosity, and fantasy to motivate learning.

Lewnes, Ann. "Videodisc Usage Increasing: Creative Applications Surface," Video Manager, March 1985, pp.1,18. A report on a recent survey of interactive video use in video facilities.

Pribble, Ralph. "Enter the Videodisc," Training, March 1985, pp.91-96. A look at the use and impact of interactive video in training.

"Q&A: Ron Nugent," Videodisc Monitor, March 1985, p.10. An interview with the director of the Nebraska Videodisc Design/Production Group.

"The Technology Transfer Act," Videodisc Monitor, March 1985, pp.14-15. A description of a bill currently before Congress that would facilitate the transfer of computerized training programs developed by the federal government to the private sector for use in manpower training.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

SECA Discovers Interesting Uses of Technologies Through Survey

The Center for Instructional Communications of the Southern Educational Communications Association recently released the findings of its Postsecondary/Adult Learning Telecommunications Market Research Study. Conducted between July 1983 and October 1984, the report is based on an analysis of a survey of colleges and universities in 17 states that make up SECA membership.

The report found that many colleges and universities in the SECA states are not merely relying on a single technology to deliver instruction. A small but significant minority indicated that they combine two or more technologies. Audiotape, audioconferencing, and radio are among the technologies most often combined with broadcast or cable television. Among those using computers, 11 percent combine them with videotape, 5 percent with videodiscs, and 7 percent with telephone. Some respondents who use audio teleconferencing add a visual component by employing either videotape or transparencies.

Contact: Reta Richardson, SECA, 803/799-5517.

Articles

"Data Cable to Test-Market X'Press before Summer Launch," CableVision, February 25, 1985, p.19. A report on the personal computers text operation courrently delivered via cable in Boulder, Colo.

"Discovery Broadcasting Sets New Dates for Launch of Cable Services," Cable Vision, March 4, 1985, p.24. An announcement of the launch of a new computer software downloading service delivered by cable TV in the Los Angeles area.

"An Interactive Voyage on the Mimi," Videodisc Monitor, March 1985, p.4. A description of an educational TV series that coordinates broadcast TV, classroom software, and videodiscs to provide an integrated educational experience.

Mace, Scott. "Electronic Orchestras in Your Living Room," InfoWorld, March 25, 1985, pp.29-33. A look at the new trend of computer manufacturers to combine music synthesizers with computers for the production of high tech music.

Mitchell, Peter. "Multichannel Sound," High Technology, April 1985, pp.30-32. An overview of the history and future of stereo TV.

Rogers, Stephen. "The Talking Apple," T.H.E Journal, March 1985, pp.102-103. A description of the use of an Echo 2 speech synthesizer and an Apple IIe computer as an aide for the blind.

"Universities Seen Adapting Well to Changes in Aid for Technology," Chronicle of Higher Education, March 6, 1985, p.22. A synopsis of the report from the Congressional Office of Technology Assessment concerning the trends and issues in information technology.

INDEX

A listing of periodicals cited in this issue of Telescan

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AEDS Montior. Association for Educational Data Systems, 1201 Sixteenth Street NW, Washington, DC 20036.
Broadcasting. Broadcasting Publications, 1735 DeSales Street NW, Washington, DC 20036.
Business Communication Review. BCR Enterprises, Inc., 950 York Road, Hinsdale, IL 60521.
Business Week. McGraw-Hill, Inc., 1221 Avenue of the Americas, New York, NY 10020.
CableVision. Titsch Communications, 101 Park Avenue, New York, NY 10178.
Chronicle of Higher Education. Chronicle of Higher Education, 1255 23rd Street NW, Washington, DC 20037.
Communications News. Harcourt Brace Jovanovich, Inc., 124 First Street, Geneva, IL 60134.
Current. Current Publishing Committee, Box 53358, Washington, DC 20009.
EDUCOM Bulletin. EDUCOM, P.O. Box 364, Princeton, NJ 08540.
Electronic Media. Crain Communications, 740 Rush Street, Chicago, IL 60611.
Fire Journal. National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.
High Technology. Technology Publishing Company, 38 Commercial Wharf, Boston, MA 02110.
IEE Proceedings. Institution of Electrical Engineers, Savoy Place, London, WC2R OBL, ENGLAND.
The Indepedent. Foundation for Indepedent Video and Film, 625 Broadway, 9th Floor, New York, NY 10012.
InfoWorld. Popular Computing, Inc., 1060 Marsh Road, Suite C-200, Menlo Park, CA 94025.
Journal of Computer-Based Instruction. Association for the Development of Computer-Based Instructional Systems, Miller Hall 409, Western Washington University, Bellingham, WA 98225.
Journal of Higher Education. Ohio State University Press, 2070 Neil Avenue, Columbus, OH 43210.
LPTV Currents. National Institute for Low Power, 17 Washington Street, Norwalk, CT 06856.
Monitor. Learned Information, Ltd., Besselsleigh Road, Abingdon, Oxfordshire OX12 6LG, ENGLAND.
Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
PSSC Newsletter. Public Service Satellite Consortium, 1660 L Street NW, Suite 907, Washington, DC 20036.
Radio World. Industrial Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, VA 22041.
Satellite Communications. Cardiff Publications, 6430 South Yosemite Street, Englewod, CO 80111.
Tech Trends. Association for Educational Communications and Technology, 1126 16th Street NW, Washington, DC 20036.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
TeleSpan. TeleSpan, 50 West Palm Street, Altadena, CA 91001.
T.H.E Journal. Information Synergy, Inc., P.O. Box 17239, Irvine, CA 91001.
Time. Time, Inc., Time & Life Building, Rockefeller Center, New York, NY 10020.
Training. Lakewood Publishers, 731 Henneoin Avenue, Minneapolis, MN 55403.
Videodisc Monitor. Future Systems, Inc, P.O. Box 26, Falls Church, VA 22046.
Videodisc & Optical Disk. Meckler Publishing, 11 Ferry Lane West, Westport, CT 06880.
Videography. United Business Publications, Inc., 475 Park Avenue, Westport, CT 06880.
Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.

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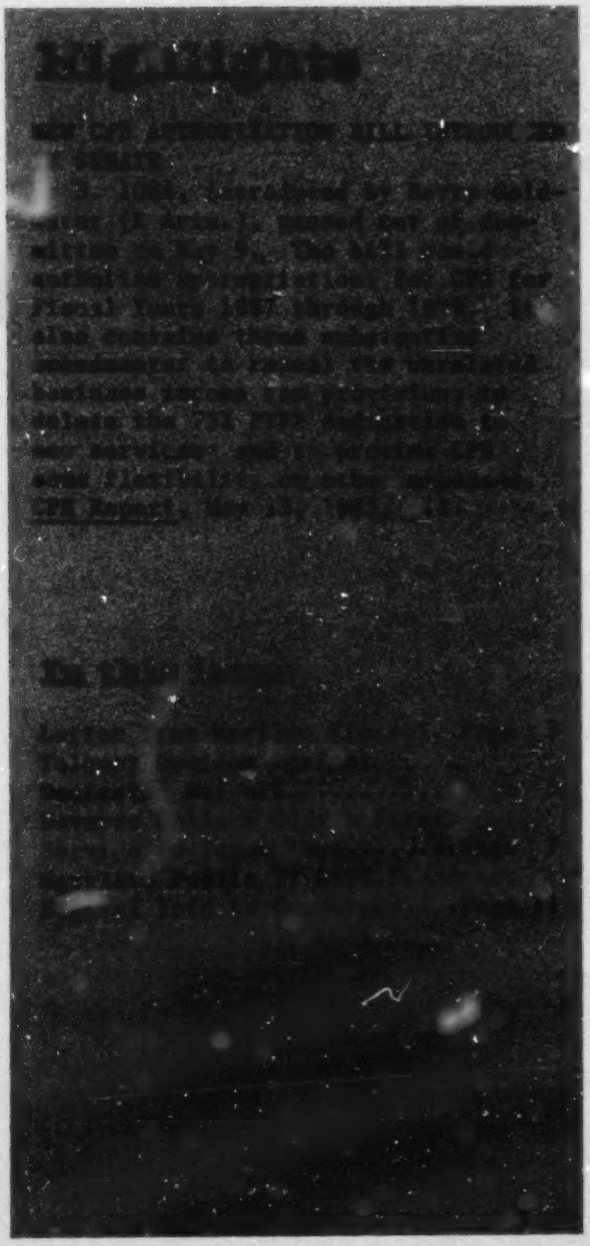
TELESCAN

JUNE 1985

The Digest of the Center for Learning and Telecommunications VOLUME 4 ISSUE 10



Focus On:

Resources in Educational Telecommunications

Since this is the last issue of Telescan, it seemed appropriate to provide a list of organizations, periodicals, and resource materials that will continue to keep you informed about telecommunications and higher education in the months to come. While this list is not meant to be comprehensive, it provides contacts and resources that the Center has found most helpful in gathering data on post-secondary uses of telecommunications.

Telephones

The Telecommunications Research and Action Center (TRAC) is a nonprofit membership organization whose primary goal is to promote the interests of residential telecommunications users. TRAC offers a number of resource materials to assist consumers in understanding telephone issues:

- ACCESS, a monthly journal that reports on court decisions and FCC rulings concerning the divestiture;
- Reverse the Charges, How to Save Money on Your Telephone Bill, and other books that explain AT&T's procedures; and
- TeleTips, a chart that compares long distance providers and their services.

Contact: Sam Simon, TRAC, P.O. Box 12938, Washington, DC 20005; 202/462-2520.

(Continued on page 2)

(Continued from page 1)

Other resources that cover telephone issues include:

Telephony, 55 E. Jackson Blvd., Chicago, IL 60604. A monthly newsletter.

Telephone Angles, Robert Frank Publishing, P.O. Box 633, West Hartford, CT 06107. A monthly newsletter.

Radio

The National Federation of Community Broadcasters (NFCB) is a nonprofit membership organization that represents community-oriented radio groups throughout the U.S. Their monthly newsletter, The NFCB Newsletter, follows legislation and regulations that affect nonprofit radio stations. They provide member stations with discount radio programming and hold a national conference every year on community radio issues.

Contact: Carol Schatz, NFCB, 1314 14th St. NW, Washington, DC 20005; 202/797-8911.

Other resources on public or educational radio include:

Current, Current Publishing Committee, Box 53358, Washington, DC 20009. A weekly newspaper.

Tuning Out Education: The Cooperation Doctrine in Radio, 1922-38. Eugene Leach, available from Current Publishing. A book that provides the account of the evolution of educational radio.

Teleconferencing

The Center for Interactive Programs is a division of the University of Wisconsin-Extension that develops and provides resource material on both audio and video teleconferencing. The Center produces a monthly newsletter on the teleconferencing field, Telcoms, holds an annual conference, and makes the papers presented at each conference available in the books Teleconferencing and Electronic Communications Volume I, II, and III.
Contact: Loren Parker, CIP, Lowell Hall, 610 Langdon St., Madison, WI 53703; 608/262-4554.

Other resources that carry information on teleconferencing are:

TeleSpan, TeleSpan Publishing, 50 West Palm St., Altadena, CA 91001. A monthly newsletter.

Teleconferencing: A Practical Guide to Teaching by Telephone. Ricki Ann Bronstein, Jack Gill, and Elmer Koenman. Society of Clinical Pathologists Press, Chicago, IL. An excellent book on the educational applications of audio teleconferencing.

TeleGuide: A Handbook for Video-Teleconference Planners. Public Service Satellite Consortium, Washington, DC. A resource book on steps to ensure a good satellite teleconferencing event.

Broadcast Television

The Corporation for Public Broadcasting publishes the newsletter, CPB Report, fortnightly. CPB also makes available many research papers and studies that were developed through its funding. A sampling of the reports available includes:

- "The Impact of the Cable Television Industry on Public Television,"
- "Instructional Television Fixed Services: An Analysis of ITFS Operations," and
- "Evaluation of EDUCABLE, Nebraska Cable Television Research Program."

Contact: Publications Department, CPB, 1111 16th St. NW, Washington, DC 20036; 202/293-6160.

The Adult Learning Service of PBS has information on telecourses and the telecourse student. It also publishes a schedule of its course offerings nine months prior to broadcast dates.

Contact: Ginny Goldstein, Adult Learning Service, 475 L'Enfant Plaza SW, Washington, DC 20024; 202/488-5360.

(Continued on page 4)

• SCAN

June 1, 1985

Dear Telescan Subscriber:

It is with considerable regret that we bring you this last issue of Telescan. In addition to its usual sections, this final issue's "Focus" provides you with a compilation of information resources in the postsecondary/telecommunications field. We hope these contacts will fill some of the gaps in networking and information referral provided by Telescan.

Calls and letters continue to come in from all of you. I appreciate the strong support you have given us and share with you the disappointment in the ending of Telescan. As many of you have expressed, Telescan was the only cumulative source of information on the range of developments, programs, projects, and literature in the applications of telecommunications for education and training. It facilitated networking and information-sharing among practitioners and policymakers in postsecondary agencies both in the U.S. and abroad. I believe there continues to be a need for this type of service.

Please keep your letters and calls coming in. You can be sure I will keep you posted on new activities and, of course, any glimmer of a possible revitalized Telescan. Feel free to contact me with your ideas and suggestions. And, finally, on behalf of all of us at the Center for Learning and Telecommunications, thanks so much for your good will and support.

Sincerely,

Marilyn Kressel

Marilyn Kressel
Director
Center for Learning and Telecommunications

(Continued from page 2)

Other resources on public television:

Current, Current Publishing, Box 53358, Washington, DC 20009. A weekly newspaper.

The Independent, the Association of Independent Video and Filmmakers, 625 Broadway, 9th Floor, New York, NY 10012; (212) 473-3400. A monthly magazine.

E&ITV, (Educational and Instructional Television) Charles Tepfer Publishing, 51 Sugar Hollow Road, Danbury, CT 06180. Monthly magazine and weekly newsletter.

Tech Trends, Association for Educational Communications and Technology, 1126 16th St. NW, Washington, DC 20036. Monthly magazine.

T.H.E. Journal, Information Synergy, Inc., P.O. Box 17239, Irvine, CA 92713. Monthly magazine.

Journal of Educational Technology Systems, Baywood Publishing Co., 120 Marine St., Farmingdale, NY 11735. Quarterly journal.

Cable Television

National Federation of Local Cable Programmers is a nonprofit membership organization that provides assistance to individuals and groups operating local cable channels (including educational channels). The NFLCP offers a number of resources to educators interested in cable TV as a distribution system. These include:

- The Community Television Review, a quarterly magazine that covers local cable programming activities around the country;
- books on educational access to cable TV, the franchising process, and local TV production, and;
- a national convention held annually that includes an educational track of workshops.

Contact: Sue Buske, NFLCP, 906 Pennsylvania Ave. SE, Washington, DC 20003; 202/544-7272.

The Cable Television Information Center is another nonprofit organization based in Washington, DC, that provides informational services about cable TV. The Center now accepts educational institutions as members; the majority of its constituents are municipalities. CTIC publishes a monthly newsletter, CTIC Cable Reports, that follows cable legislation and regulations and includes a column on educational cable.

Contact: Lonnie Moffet, CTIC, 1500 No. Beauregard St. #205, Alexandria, VA 22311; 703/845-1700.

Other resources on cable television are:

Short Course on Cable, a pamphlet published by the United Church of Christ, New York, NY, that provides a basic explanation of how a cable system works.

The Cable/Broadband Communications Books I, II, and III. Mary Louise Hollowell ed., Communications Press, Washington, DC 20036.

A series of books providing articles by experts in the cable field on the capabilities of cable technology.

Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209. A weekly newspaper.

Satellites

Public Service Satellite Consortium (PSSC) is a membership organization of nonprofit institutions that encourages and facilitates appropriate applications of satellite technologies for public service. It publishes a bimonthly newsletter for members, The PSSC Newsletter. In addition, PSSC publishes the books, Buying Your Own Earth Station: Making the Right Decision, and Installing Your Satellite Uplink: What You Need to Know.

(Continued on page 6)

AUDIOSCAN

Articles, books, programs, and projects involving the uses of audio technologies.

Teleconferencing

Programs

Telenet Will Deliver Courses Over Bridge System This Year

The Georgia Hospital Association has operated an audio teleconferencing network called Telenet, since 1980. The Telenet system began with a roster of 22 hospitals and has since grown to 83 sites. The hospitals use the network for continuing education courses, administrative meetings, and professional group meetings.

Telenet has delivered over 250 continuing education courses since its inception. The curriculum delivered has varied from programs on infection control to laundry management.

While Telenet has operated as a dedicated system that leases private lines from the telephone company, the network will switch to a "meet me" bridge system this year. Robert Searfoss, director of Telenet explains that one of the biggest reasons for the changeover is the large cost increase and poor service resulting from the AT&T divestiture. "The administrative difficulties of operating a large private line system have just gotten out of hand," he said.

GHA received a grant to purchase three Darome 2020 bridges. The Association plans to install 40 lines by the end of May and hopes to have the remaining 20 lines operational by the end of the year.

Contact: Robert Searfoss, GHA, 404/955-0324.

Radio

Articles

"CPB Supports Increasing Station Share of Federal Funds," NFCB Newsletter, March/April 1985, pp.1,3,15-16. A report on CPB's response to NPR's five year business plan seeking increased funding levels for public radio in 1987.

Jensen, Elizabeth. "Report on NPR Finances Frustrates Public Stations," Electronic Media, April 4, 1985, pp.3, 33. A discussion of an in-depth report on NPR finances released by CPB.

Werden, Frieda. "NPR Wins $921K from CPB for Bailout," Current, March 27/April 9, 1985, pp.1,6. A report on CPB's decision to add support to NPR's news magazines, "Morning Edition" and "All Things Considered."

Telephone

Articles

"The Telephone: An Old Technology Explores New Distance Education Models," Uplink, April 1985, p. 12. A discussion of the AID Rural Satellite Program, which is assisting developing nations in the use of telephone-based distance education systems.

"Phone Hookup Talks to the Deaf," High Technology, May 1985, p.9. A description of a new device that allows deaf people to communicate with the hearing via phone lines and teletype printers.

(Continued from page 4)

Contact: Lou Bransford, PSSC, 600 Maryland Ave. SW, Washington, DC 20045; 202/863-0890.

Other resources on satellies technology are:

Sat Guide, Commtek Publishing Co., P.O. Box 1700, Hailey, ID 83333. Monthly guide to programming on satellites.

Satellite Communications, Cardiff Publishing Co., 3900 S. Wadsworth Blvd., Denver, CO 80235. Monthly magazine on satellite news.

Videotex/Teletext

The Program on Electronic Text for Higher Education is a complex of research and demonstration activities supported by the Annenberg/CPB Project. The Program is being conducted by San Diego University, the University of Wisconsin, the University of Nebraska, and WGBH-TV, Boston -- who make up the Electronic Text Consortium.

The Consortium produces a bimonthly newsletter that reports on their activities and trends in the electronic text industry. It has also printed several project reports that are available to the public. These include:

- "Electronic Text and Higher Education,"
- "Instructional Development for Videotex: Flowcharts and Scripting," and
- "An Economic Assessment of Electronic Text for Higher Education."

Other resources that cover videotex and teletext services are:

Video Print, International Resource Development Inc., 6 Prowitt Street, Norwalk, CT 06855. A weekly newsletter that covers the videotex/information industry. monthly magazine.

Videodisc

The Nebraska Design/Production Group, University of Nebraska is a good resource for information on educational uses of videodiscs. The group produces a newsletter that follows the development and trends in videodisc design. It holds an annual conference on videodiscs and makes awards to products that excel in innovative design.

Contact: Ron Nugent, KUON-TV/ University of Nebraska-Lincoln, P.O. Box 83111, Lincoln, NE 68501; 402/472-3611.

Other resources that report on the videodisc and interactive video industry:

Videodisc Monitor, P.O. Box 26 Falls Church, VA 22046. A monthly newsletter.

Videodisc & Optical Laser Disk Meckler Publishing, 11 Ferry Lane West, Westport, CT 06880. A bimonthly magazine.

Computers

The Association for Educational Data Systems is a membership organization that works to serve the needs of the educational computing community. It publishes a quarterly journal and a bimonthly magazine that follow postsecondary uses of computers. Contact: Shirley Hammond, AEDS, 1201 16th St.NW, Washington, DC 20036; 202/822-7845.

EDUCOM is a nonprofit consortium of colleges, universities, and other institutions that facilitate the introduction, use, and management of information technology. EDUCOM publishes a quarterly magazine and holds a national conference on computing every year.

Contact: Louise Dutney, EDUCOM, P.O. Box 364, Princeton, NJ 08540; 609/734-1877.

Other resources on educational computing are:

Collegiate Microcomputer, Rose-Hulman Institute of Technology, Terre Haute, IN 48703. A quarterly journal.

Electronic Learning, Scholastic, Inc., 50 West 44th St., New York, NY 10036. A monthly magazine.

Journal of Computer-Based Instruction, Association for the Development of Computer-Based Instructional Systems, Miller Hall 409, Western Washington University, Bellingham, WA 98225. A quarterly journal.

VIDEOSCAN

Articles, books, programs, and projects involving the uses of video technologies.

Broadcast Television

Programs

Texas College Provides Only Local TV in Town

Navarro College, a two-year liberal arts institution in Corsicana, TX, now offers the only local broadcast service in town via their new low power television station. The primary purpose for the station is to give Navarro telecommunications students practical experience in broadcasting, but Corsicana also benefits from the local and educational programming provided.

Since November 1, 1984, Navarro has been broadcasting daily The Learning Channel programming from 8am to 3pm, C-SPAN programming from 3 to 6pm, and using locally produced shows in the evening hours. The local programming is produced and developed by community members. A sampling of shows include a local news program, a children's hour called "Five Fantasy Lane," and a jazzercise show.

Linda Timmerman, manager of the station, explained that the programming has been very successful within the community. Warner Amex, the cable company in Dallas (60 miles away), has picked up their children's show and other area cable companies are hoping to pick up Navarro's entire channel.

Come Fall 1985, Navarro will also be offering its own telecourses. The state of Texas has recently lifted its moratorium on funding instructional television and as a result Navarro will receive funds to finance telecourse acquisition and production. This fall the college will broadcast two Annenberg/CPB Project courses: "The Write Course" and "The New Literacy."

Contact: Linda Timmerman, Navarro College, 214/874-6501.

Articles

Curtis, John. "ITFS at the Crossroads - Again," E&ITV, March 1985, pp.66,70-72. A discussion of the requirements and limitations that might be imposed on ITFS operators by the FCC in the areas of ownership and the establishment of national networks.

"D.C. Multichannel MDS Service Cuts Rates, Sees Nov. Break-Even," Multichannel News, April 15, 1985, p.16. A look at the progress of Capitol Connection's MMDS operation, currently offering subscription television over George Mason University's four ITFS channels.

"Government TV Is Alive and Insecure in the U.S.," Channels, March/April 1985, pp.10-11. A discussion of public TV's government-owned stations and their ability to maintain independence from government control.

"Public Broadcasting: a Survivor," Broadcasting, April 15, 1985, pp.163-67. An overview of the state of public broadcasting under the Reagan administration cuts.

Reilly, John. "LPTV Update," Videography, April 1985, pp.65-72. A series of profiles of some low-power stations currently broadcasting in the U.S.

Ross, Jeanette. "PTV Stations Revitalize ITV Services," E&ITV, April 1985, pp.39-41. A report on Video Library Project, a service of WNED, Buffalo, NY, that allows schools to record ITV programs off-air from early morning broadcasts for use at a later date.

"WNYC-TV Leases Air Time to Commercial Programmers," E&ITV, April 1985, pp.4, 6. A description of how WNYC-TV's commercial TV license is enabling it to produce revenue by leasing blocks of air time.

Woods, Robert. "ITFS -- A Truly Local Service," E&ITV, April 1985, pp.68-71. A response to E&ITV's March article, "ITFS at the Crossroads -- Again," that promotes the idea of ITFS as locally based rather than a part of a national network.

Cable Television

Programs

Utah College Sets-Up New Cable Station

Weber State College has been programming its own cable channel in Ogden, Utah, since February 1985. Weber, a four-year institution, has introduced the new channel to provide alternative educational programming for adults. The station also provides Weber students with practical, hands-on experience in TV production.

Channel 20 receives all of its programming via satellite from The Learning Channel. Currently, the station transmits during the daytime hours only, Monday through Friday. Linda Wolcott, general manager of Channel 20, explains, "In the future we would like to transmit in the evening hours and possibly use locally originated programming, such as a local newscast, rebroadcast of college basketball games, and civic/cultural programs. But we're just getting started, this is a new venture for us."

Contact: Linda Wolcott, Weber State Cable, 801/626-7932.

Articles

*"Austin Gets an Eyeful: Sacrilege and the Klan," Channels, March/April 1985, pp.42-43. A report on the public access channels in Austin, TX, that are offering air time to all citizens including the Ku Klux Klan.

"Cities, Industry Comment on Cable Rules," CTIC Cable Reports, January/February 1985, pp.1,6. An overview of the issues currently under debate at the FCC over implementation of the Cable Act.

"Courts Continue to Grant Wider First Amendment Rights to Cable," Broadcasting, April 1, 1985, p.88. A description of a court case that again rules cable TV to be different from broadcast TV and therefore accorded more First Amendment protection.

"The Empires Strike Back," Cable Communications Magazine, April 1985, pp.10-21. A look at the explosion of cable TV and DBS activity in Europe and how it is changing communications there.

"The Learning Channel's Agenda," The Independent, May 1985, pp.4-5. An evaluation of two TLC programs, "Agenda," and "Dispatches," that showcase independent film and video makers.

"Media General Petition Seeks Clarification of Cable Act," CableVision, April 8, 1985, p.143. A discussion of cable company Media General's petition to the FCC for clarification of franchise fee requirements.

"Minneapolis' Independent Cable Hook-Up," The Independent, April 1985, pp.3-4. A description of the public access effort in Minneapolis, MN, run by media center UCVideo.

Satellites

Programs

NTU Previews Its Engineering Continuing Education Courses Via Satellite

The Association for Media-Based Continuing Education for Engineers (AMCEE) and the National Technological University (NTU) have previewed their joint

satellite delivery system in a two-week festival of instructional programming, May 13-24. Colleges and universities equipped with satellite receivers were able to get the 14 courses for $1,000. IBM donated $150,000 to enable NTU to present 60 hours of credit and non-credit courses at this nominal cost.

Two credit courses, five non-credit "short courses," and seven research seminars were broadcast during the two-week period. The courses, taught by professors from 15 universities affiliated with NTU, covered subjects including: expert systems, the factory of the future, management for engineers, telecommunications, and supercomputers. Telephone links enabled students to ask questions of the professors.

Contact: Lionel Baldwin, NTU, 303/491-6092.

Articles

"Alternatives to Intelsat Favored in FCC Comments," Broadcasting, April 8, 1985, pp.136-40. An overview of the comments received by the FCC concerning the creation of international satellite systems other than Intelsat.

"The Indonesian Distance Education Satellite System: INDESS," Uplink, April 1985, pp.1-2,10-11. A description of INDESS, a two-channel, four-wire, dedicated network using Indonesia's Palapa satellite system to connect 13 classroom sites.

Stephens, Guy. "Satellites for Healthcare," Satellite Communications, April 1985, pp.31-32. A discussion of the Hospital Satellite Network and how it serves some 176 hospitals around the country.

Teleconferencing

Articles

"Education and Teleconferencing: Still Innovating After All These Years?" Telcoms, April 1985, pp.1-4. Excerpts from interviews with four university teleconferencing personnel.

Gillette, Paul. "Will Teleconferencing Improve Education by Reaching More Participants?" T.H.E. Journal, April 1985, pp.78-80. A look at American businesses using teleconferencing for training.

"Videoconferencing: National's Main Street," Video Systems, April 1985, pp.60-63. A report on the National Trust for Historic Preservation's use of a national teleconference to teach about restoration.

Videodisc

Articles

"New Technology -- Videodisc Applications Loom," Monitor, March 1985, pp.9-12. A profile on Reference Technology, Inc., a laser optical developer that provides discs with large-volume storage capacity.

"Special Report: A Time Line of Videodisc Milestones," Videodisc Monitor, April 1985, pp.I/A-I/D. A chart representing the important landmarks in videodisc development from 1875 to December 1984.

Videotex/Teletext

Articles

Gelman, Morrie. "Videotex System Set for Business Use," Electronic Media, April 18, 1985, p.30. A description of InfoNow, a new videotext system from Honeywell geared for business use.

"Videotex Association Solicits Review of Model Computer Act," Videodisc and Optical Laser Disk, March/April 1985, p.105. A discussion of a bill drafted by the Videotex Industry Association to curb electronic trespassers of videotex and online services.

COMPUSCAN

Articles, books, programs, and projects involving the uses of computer technologies.

Computers

Articles

"Computer Aided Instruction," Teletrends, Spring 1985, pp.1-9. A series of articles providing a synopsis of some presentations given at the League for Innovation Cable and Telecommunications' 11th National Conference.

Lee, Helen. "Computer Consulting in Schools," Collegiate Microcomputer, February 1985, pp.19-22. Tips to help teachers understand how to use computers in their classrooms.

Mace, Richard. "Development of a Campus Information Utility," T.H.E. Journal, April 1985, pp.68-70. A look at the integration of technology into the campus environment.

McEwing, Richard and Roto, Gene. "Computer Based Instruction," Media & Methods, March/April 1985, pp.19-22, 28. An examination of communication patterns created by computer-based instruction.

"Playing Computer Catch-Up," Time, April 15, 1985, pp.84-85. A report on the Soviet Union's attempt to launch computers into their classrooms.

Sokoloff, Michele. "Linking the New Technologies with Special Education," Media & Methods, March/April 1985, pp.12-16. A discussion of new computer enchancement that allows students with physical disabilities to better communicate.

Summit, Roger and Meadow, Charles. "Emerging Trends in the Online Industry," Special Libraries, Spring 1985, pp.88-92. An overview that identifies data storage in and new functions being added to online services.

Wholeben, Edward. "The Impact of Computerized Technology on the Applied Sciences: A New Direction for Higher Education in the Twentieth Century," Collegiate Microcomputer, February 1985, pp.85-95. An exploration of the demands of new technology on the training of undergraduate and graduate students.

Interactive

Articles

Cassidy, Danny. "Medical Training: Dysrhythmia Recognition," Video Systems, April 1985, pp.6[illegible]-68. A description of the American Heart Association's unique videodisc that provides a stand-alone training course in dysrhythmia recognition.

"Cooperative Effort: Interactive Centers Set Up," Video Manager, May 1985, pp.1, 25. A report on Project Leader, which will make individualized interactive video courseware available to a select group of community colleges across the country.

Turner, Mark. "A Videodisc Project for Indonesia," E&ITV, April 1985, pp.45-46. A discussion of the U.S. Agency for International Development Project for Indonesia that involves the design, production, and testing of two laboratory science lessons on interactive video.

MACROSCAN

Articles, books, programs, and projects involving the uses of combined technologies.

Programs

Maryland Public TV Will Use Broadcast Subcarrier for Computer Delivery

Maryland Instructional Television will be testing an "educational utility system" this summer that will use air wave frequencies to link computer terminals in Maryland schools with data, software, and video transmissions. The utility will make use of a subcarrier on the Maryland Public Television signal to broadcast digital information to computers located in five pilot schools. A single entry point will provide the means of sending information to over 500,000 students simultaneously.

Teacher training will begin June 17 and Maryland Public Television will be testing the broadcast equipment throughout the summer. Starting in September two high schools, two middle schools, and one elementary school will participate in the pilot project. Initially, the PTV station will be broadcasting new software packages and their updates, general information, and customized data packages to the schools. According to Michael Sullivan, coordinator of the project, one school emphasizes vocational instruction, one science, and another language arts, so Maryland Instructional TV is currently acquiring information to fill these special needs.

Maryland Public Schools hope that this project will extend to schools throughout the state. In fact, over 25 percent of local districts have asked to participate in the first stage of involvement. The Maryland Department of Education sees the educational utility as a cost effective means of supplying educational software to schools.

Contact: Michael Sullivan, Maryland Instructional TV, 301/356-5600.

Articles

"Look Who's Opening Computer Shops," Business Week, April 8, 1985, pp.40-41. A report on Atlantic Corp.'s purchase of CompuShop Inc.

Slamecka, Vladmir. "Information Technology and the Third World," Journal of the American Society for Information Science, May 1985, pp.178-83. A review of selected effects of new developments in information technology on the Third World.

"Telecommunications to Serve Distance Education in Indonesia's Open University," Uplink, April 1985, p.3. A discussion of Indonesia's use of radio and television instruction in distance education.

"Videoconferencing: The computer plus," Video Systems, March 1985, pp.72-74. A description of a new teleconferencing system that uses computer technology to reduce cost and enhance communication.

Winter, Robin. "A Computer/Video Partnership to Teach Teachers Computers," E&ITV, March 1985, pp.78-80. A look at IBM's training package for IBM PCs that combines videotape and computers.

Zacks, Richard. "Cable System to Sell VCRs," Electronic Media, April 18, 1985, p.30. A report on cable operator Jones Intercable, which is offering a VCR with its basic cable package.

INDEX

A listing of periodicals cited in this issue of Telescan

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Business Week. McGraw-Hill, Inc., 1221 Avenue of the Americas, New York, NY 10020.
Cable Communications Magazine. Ter-Sat Publications, 4 Smetana Drive, Kitchner, Ontario N2B 3B8. CANADA.
CableVision. Titsch Communications, 101 Park Avenue, New York, NY 10178.
Channels of Communication. Media Commentary Council, Inc., 1515 Broadway, New York, NY 10036.
Chronicle of Higher Education. Chronicle of Higher Education, 1255 23rd Street NW, Washington, DC 20037.
Collegiate Microcomputer. Rose-Hulman Institute of Technology, Terre Haute, IN 02172.
Communications News. Harcourt Brace Jovanovich, Inc., 1 First Street, Geneva, IL 60134.
CTIC Cable Reports. Cable Television Information Center, 1500 N. Beauregard Street, #205, Alexandria, VA 22311.
Current. Current Publishing Committee, Box 53358, Washington, DC 20009.
E&ITV.(Educational and Industrial Television). Charles S. Tepfer Publishing, Inc., 51 Sugar Hollow Road, Danbury, CT 06180.
Electronic Media. Crain Communications, Inc., 740 Rush Street, Chicago, IL 60611.
High Technology. Technology Publishing Co., 38 Commercial Wharf, Boston, MA 02138.
The Independent. Foundation for Independent Video and Film, 625 Broadway, 9th Floor, New York, NY 10012.
Journal of the American Society for Information Science. John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158.
Journal of Developmental Education. Baywood Publishing Co., Inc., 120 Marine Street, Farmingdale, NY 11735.
Media & Methods. American Society of Educators, 1511 Walnut Street, Philadelphia, PA 19102.
Monitor. Learned Information, Ltd., Besselsleigh Road, Abingdon, Oxfordshire. OX12 6LG ENGLAND.
Multichannel News. Fairchild Publishing, 300 South Jackson, Denver, CO 80209.
NFCB Newsletter. National Federation of Community Broadcasters, 1314 14th Street NW, Washington, DC 20005.
Radio World. Industrial Marketing Advisory Services, Inc., 5827 Columbia Pike, Suite 310, Falls Church, VA 22041.
Satellite Communications. Cardiff Publications, 6430 South Yosemite Street, Englewood, CO 80111.
Special Libraries. Special Libraries Association, 235 Park Avenue, New York, NY 10003.
Telcoms. University of Wisconsin-Extension, Lowell Hall, 610 Langdon Street, Madison, WI 53703.
TeleSpan. TeleSpan, 50 West Palm Street, Altadena, CA 91001.
TeleTrends. Peralta Community College District, 333 E. 8th Street, Oakland, CA 94606.
Time. Time, Inc., Time & Life Building, Rockefeller Center, New York, NY 10020.
T.H.E. Journal. Information Synergy, Inc., P.O. Box 17239, Irvine, CA 92713.
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Videography. United Business Publications, Inc., 475 Park Avenue South, New York, NY 10016.
Video Manager. Knowledge Industry Publications, Inc., 701 Westchester Avenue, White Plains, NY 10604.
Video Systems. Intertec Publishing Corp., 9221 Quivira Road, Box 12901, Overland Park, KS 66212.

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